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WATER SUPPLY OUTLOOK FOR MONTANA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

AS OF
MAY 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

SCS PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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THE HISTORY OF THE
CITY OF
NEW-YORK

FROM THE FIRST SETTLEMENT
TO THE PRESENT TIME
BY
JONATHAN BELL
OF NEW-YORK
IN TWO VOLUMES
VOL. I.
NEW-YORK: PRINTED BY
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MONTANA WATER SUPPLY OUTLOOK

May 1, 1974

* * * * *

* Large snowpack increases were recorded this past month *
* in the Gallatin and Rock Creek drainages east of the *
* divide and in the Mission Mountains and part of the *
* Swan Range west of the divide. The current mid and *
* high elevation snowpack is generally near or above *
* average in all drainages except for the north portion *
* of the Big Horn Mountains. Many low elevation snow *
* courses are below average representing melt from warm *
* April temperatures and below average snowfall. Near *
* maximum snowpack is present in some portions of the *
* Kootenai, Flathead, Lower Clark Fork, Bitterroot, Big *
* Hole and Madison River drainages. *
*

* Average or above runoff is forecast for all streams *
* except those in Southeast Montana. *
*

* Record or near record runoff volumes are predicted for *
* Kootenai tributaries north and west of the Kootenai *
* River in Montana, tributaries to the Lower Clark Fork *
* west of the River, west side Bitterroot streams and the *
* Bitterroot River and Madison River. *
*

* * * * *

COLUMBIA RIVER DRAINAGE

Snow - Snowpack varies from near average in extreme headwaters of the Clark Fork to record or near record levels near the Montana-Idaho border and a small area east of Big Fork.

Low elevation snow is melting and water equivalent measurements in this zone are generally below average. Some higher elevation snow courses showed increased water content of 14 to 17 inches during April.

Streamflow - Record or near record volumes spring and summer streamflow are forecast for the Yaak River, Bitterroot River and its west side tributaries, St. Regis River and Prospect Creek. Most remaining streams are expected to produce above average runoff except for near average streamflow in the extreme headwaters of the Clark Fork River.

Snowmelt peaks are expected to be quite high from streams with headwaters along or near the Montana-Idaho border. Other streams not regulated by reservoirs should have above average peak flow with exception of the Middle Fork Flathead where peaks are expected to be in the average range.

THE HISTORY OF THE

CHAPTER I

The first part of the history of the world is the history of the human race. It is a history of the progress of the human mind, of the growth of human knowledge, and of the development of human civilization. It is a history of the human spirit, of the human soul, and of the human heart. It is a history of the human race, of the human world, and of the human future.

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The third part of the history of the world is the history of the human world. It is a history of the human race, of the human world, and of the human future.

CHAPTER II

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MISSOURI RIVER DRAINAGE

Snow - Near record snowpack was measured in the Madison River drainage south of West Yellowstone and the upper Big Hole drainage. Most areas in southwest Montana have above average snowpack. In the Gallatin River drainage higher elevations received 6 to 10 inches moisture during April. The St. Mary River drainage has above average snowpack. Other areas in the Missouri River drainage have about average snowpack. Lower elevations are generally below average as a result of warm temperature and below average precipitation. Higher elevations in general have above average snowpack.

Streamflow - The Madison River is forecast to produce near record volume streamflow. Above average runoff is the outlook for the southwest area, with near average runoff for the area between Helena and Butte, and streams in Central Montana and the Milk River. Above average streamflow is forecast for the remaining portion of the area. Most irrigation supplies are expected to be normal or above.

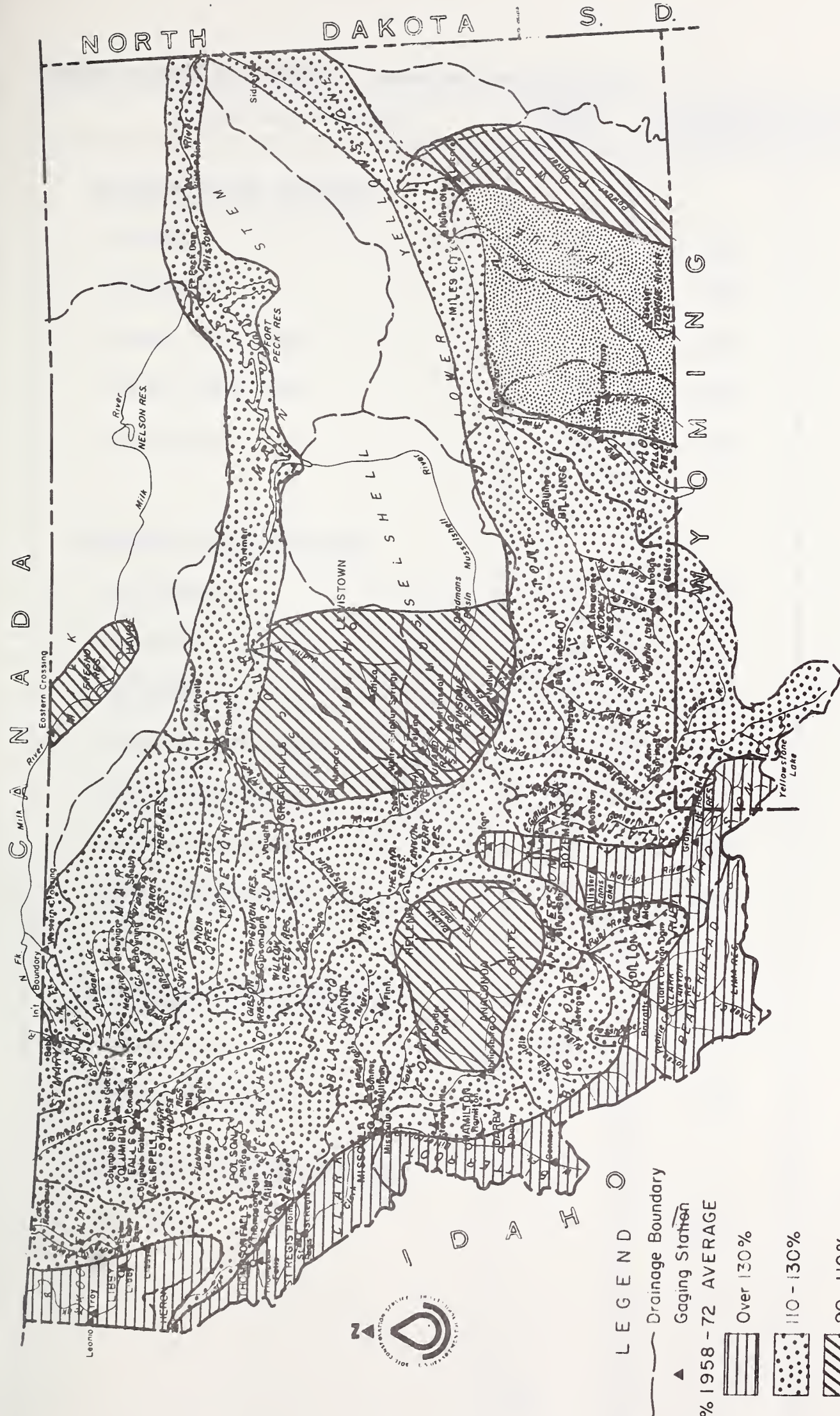
Snowmelt peaks on streams not regulated by reservoirs are expected to be above average.

YELLOWSTONE RIVER DRAINAGE

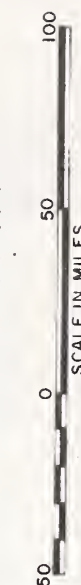
Snow - Large increases in water stored in the mountain snowpack occurred in the Rock Creek drainage near Red Lodge. Other areas showed increases at higher elevations with melt at lower elevations. In general, the upper Yellowstone and the extreme headwaters of the Boulder, Stillwater and Clarks Fork have above average snow pack while the northern area is near average. Snowpack in the north end of the Big Horn Mountains remains below average.

Streamflow - May through September streamflow is forecast above average for streams tributary to the Yellowstone River. Below average runoff is anticipated for the Little Big Horn River and the Tongue River drainages. Irrigation water supplies are expected to be near or above average from most drainages.

Snowmelt peaks are expected to range above average on most streams not regulated by reservoirs.



MONTANA



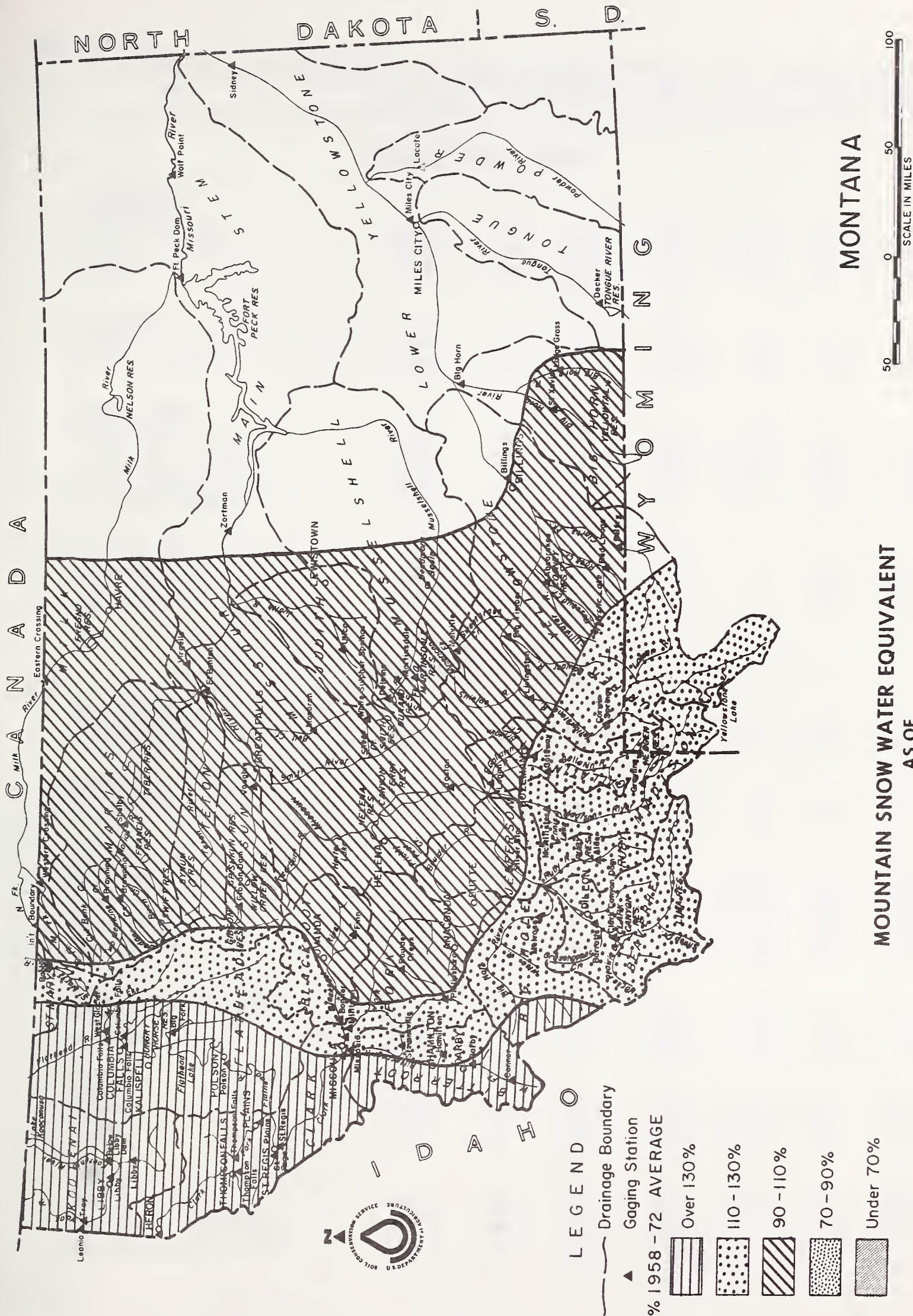
PROSPECTIVE STREAMFLOW FORECASTS
AS OF
May 1, 1974



SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	28	217	145
Flathead	20	195	135
Upper Clark Fork	29	143	96
Lower Clark Fork	14	250	135
Bitterroot	13	203	133
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	42	145	117
Madison	18	137	122
Gallatin	13	125	117
Missouri Main Stem	12	127	98
Judith-Musselshell	14	112	94
Marias-Teton-Sun	8	208	98
Milk (Headwaters)	2	181	99
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone	26	126	116
Little Big Horn	7	78	91
<u>SASKATCHEWAN RIVER DRAINAGE</u>			
St. Mary	8	160	126
-4-			

Abstracts			Abstracts	
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106	107	108	109	110
111	112	113	114	115
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491	492	493	494	495
496	497	498	499	500





SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASIN

Kootenai

Baree Trail	3800	48	7.5	5/1	6.6	6.8	6.6
Murphy Lake R. S.	3000	48	22.6	5/1	22.8	20.2	21.8
Raven	3050	48	23.0	5/1	15.6	14.2	19.5

Flathead

Desert Mountain	5600	54	8.4	5/2	9.4	8.7	8.7
Marias Pass	5250	54	6.5	4/28	8.6	7.0	6.2

Clark Fork

Black Pine	7100	48	10.0	4/29	8.8	8.6	7.6
Lubrecht Forest	4100	48	26.8	5/2	23.3	24.3	24.8
Seeley Lake R. S.	4030	48	11.9	5/2	11.9	10.2	11.7
Skalkaho Summit	7260	48	10.8	-	-	9.8	9.9

Bitterroot

Gibbons Pass	7100	48	7.1	-	-	3.2	5.6
Lolo Pass	5250	48	10.6	-	-	8.1	7.1

MISSOURI RIVER BASIN

Beaverhead

Lakeview	6700	48	15.3	4/30	18.1	14.1	13.6
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Madison

West Yellowstone	6700	48	6.5	4/29	3.3	3.3	3.2
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Gallatin

Bridger Bowl	7250	48	17.0	5/1	15.1	15.8	16.2
College Site No. 2	4856	54	17.7	4/26	16.0	19.8	16.1
Lick Creek	6860	48	18.8	4/30	17.5	15.4	17.6
Twenty-One Mile	7150	48	10.0	4/29	8.8	6.8	4.7

Missouri Main Stem

Kings Hill	7420	48	11.8	5/2	8.6	8.3	7.0
Stemple Pass	6350	48	5.9	4/29	5.4	4.4	5.0

Milk

Beaver Creek	3950	48	20.9	4/30	11.0	17.8	17.5
Rocky Boy	4700	36	10.1	4/30	10.1	9.4	9.7

Yellowstone

Battle Ridge	6020	48	17.6	5/1	14.0	13.7	14.9
Northeast Entrance	7350	48	9.4	5/1	6.3	7.7	7.7
PMC Dryland	3700	48	20.7	4/29	9.1	15.2	-

Table 1: Summary of Data

Year	Q1	Q2	Q3	Q4	Annual Total	Avg
2010	120	150	180	200	650	162.5
2011	130	160	190	210	690	172.5
2012	140	170	200	220	730	182.5
2013	150	180	210	230	770	192.5
2014	160	190	220	240	810	202.5

Table 2: Detailed Data

Year	Q1	Q2	Q3	Q4	Annual Total	Avg
2010	120	150	180	200	650	162.5
2011	130	160	190	210	690	172.5
2012	140	170	200	220	730	182.5
2013	150	180	210	230	770	192.5
2014	160	190	220	240	810	202.5

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage			
			This Year	Last Year	Average	
COLUMBIA RIVER BASIN						
Kootenai	Koocanusa	3,522.0	1,080.0	273.6	-	
Flathead	Hungry Horse	3,428.0	1,522.0	2,054.0	2,006.0	
	Flathead Lake	1,791.0	1,221.0	674.1	977.9	
	Camas (4)	45.2	24.8	33.7	32.5	
	Mission Valley (8)	100.3	55.7	35.7	44.0	
Clark Fork	Georgetown Lake	31.0	19.1	23.4	23.1	
	Lower Willow Creek	4.6	4.6	1.7	2.4	
	Noxon Rapids	334.6	207.6	57.9	138.4	
	Nevada Creek	12.6	-	5.9	10.0	
Bitterroot	Como	34.9	-	-	19.0	
	Painted Rocks	31.7	19.3	0	25.9	
MISSOURI RIVER BASIN						
Beaverhead	Clark Canyon	328.9	164.2	173.6	148.9	
	Lima	84.0	67.2	68.4	51.5	
Ruby	Ruby	38.8	33.5	38.8	35.0	
Madison	Hebgen Lake	377.5	200.4	257.1	212.6	
	Ennis Lake	41.0	35.6	32.7	36.6	
Gallatin	Middle Creek	8.0	4.2	4.6	4.5	
Missouri	Canyon Ferry	2,043.0	1,511.0	1,565.0	1,552.0	
	Hauser & Helena	61.9	61.9	52.5	59.3	
	Lake Helena	10.4	10.4	7.2	9.6	
	Holter Lake	81.9	65.9	79.0	70.6	
	Smith River	10.7	5.6	5.8	8.9	
	Bair	7.0	4.4	5.1	6.3	
	Martinsdale	23.1	10.6	11.3	10.4	
	Deadman's Basin	72.2	44.4	69.2	53.0	
	Fort Peck	19,410.0	15,930.0	16,140.0	13,470.0	
	Sun	Gibson	105.0	49.3	50.6	48.8
		Willow Creek	32.3	22.5	25.8	23.4
		Pishkun	32.0	30.9	30.4	23.1
	Marias	Lower Two Medicine	16.6	-	-	-
		Four Horns	19.2	-	-	-
Swift		30.0	14.1	20.9	20.6	
Lake Frances		112.0	44.3	96.6	84.6	
Milk	Tiber	1,347.0	549.4	497.6	611.2	
	Fresno	127.2	72.2	89.9	106.5	
	Nelson	66.8	34.9	47.9	46.8	
	Lake Sherburne	66.1	20.0	16.4	20.7	
Yellowstone	Mystic Lake	20.8	4.2	1.6	3.1	
	Tongue River	68.0	-	51.5	35.2	
	Cooney	27.5	21.0	23.0	16.7	
Bighorn	Bighorn Lake	1,356.0	759.0	940.9	783.9	

PEAK FLOWS

(MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average

COLUMBIA RIVER DRAINAGE

Blackfoot River near Bonner	12,500 - 14,500	9,902
Clark Fork River above Missoula	20,000 - 24,000	16,531
Bitterroot River near Darby	9,000 - 11,000	6,650
Clark Fork River below Missoula	40,000 - 47,500	32,373
Clark Fork River at St. Regis	55,000 - 65,000	41,080
N. Fk. Flathead near Columbia Falls	28,000 - 31,000	23,167
M. Fk. Flathead near Columbia Falls	22,000 - 27,000	25,020

MISSOURI RIVER DRAINAGE

Big Hole River near Melrose	8,500 - 10,000	8,009
Jefferson River at Silver Star	10,000 - 12,000	8,810
Gallatin River near Gateway	6,500 - 7,500	5,369
Gallatin River near Logan	6,500 - 8,000	5,324
Missouri River at Toston	22,000 - 26,000	18,005
Belt Creek near Monarch	1,300 - 1,800	1,742
Marias River near Shelby	6,500 - 8,000	12,720
S. Fk. Musselshell at Martinsdale	750 - 900	745

YELLOWSTONE RIVER DRAINAGE

Yellowstone River at Livingston	24,000 - 27,000	20,560
Boulder River near Big Timber	5,400 - 6,400	5,100
Stillwater River near Absaroka	6,500 - 8,000	6,261
Clarks Fork River near Belfry	7,700 - 9,000	7,342
Rock Creek near Red Lodge	1,200 - 1,500	1,067
Yellowstone River at Billings	47,500 - 52,500	39,188

*Highly abnormal weather during the critical melting period may cause the peak to be outside the indicated range.

Average based on 1958-72 period.

334 N. 308th Ave OREGON 97134

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

COLUMBIA RIVER BASIN

KOOTENAI RIVER					
Libby (near) (2)	8600	123	May-Sept	4962	6980
Below Libby Dam	7500	126	May-July	4153	5941
	5600	123	May-June	3182	4535
FISHER RIVER					
Libby (near)	275	134	May-Sept		205
	255	136	May-July		188
YAAK RIVER					
Troy (near)	645	143	May-Sept		451
	610	142	May-July		428
KOOTENAI RIVER					
Leonia (at)	10500	127	May-Sept	5484	8262
	9200	129	May-July	4663	7146
	7100	126	May-June	3768	5620
FLINT CREEK					
Boulder Creek (below) (3)	68.0	106	May-Sept		64.2
	54.0	111	May-July		48.5
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	92.0	128	May-Sept		72.2
	82.0	127	May-July		64.7
NEVADA CREEK					
Finn (near)	23.2	133	May-Sept		17.5
	21.5	136	May-July		16.0
BLACKFOOT RIVER					
Bonner (near)	1150	127	May-Sept	376	905
	1050	130	May-July	319	809
	910	132	May-June	274	688
CLARK FORK RIVER					
Milltown (above) (4)	820	120	May-Sept	240	681
	710	123	May-July	196	579
	590	123	May-June	164	478
CLARK FORK RIVER					
Missoula (above)	1970	124	May-Sept	616	1586
	1760	127	May-July	515	1387
	1500	128	May-June	438	1167

(2) Adjusted for storage in Lake Koocanusa.

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	238	150	May-Sept		160
	220	155	May-July		149
BITTERROOT RIVER					
Darby (near)	760	144	May-Sept	266	528
	700	144	May-July	230	486
	590	139	May-June	203	423
SKALKAHO CREEK					
Hamilton (near)	67.0	125	May-Sept		53.8
	59.0	126	May-July		46.8
BURNT FORK CREEK					
Stevensville (near) (10)	43.0	129	May-Sept		33.3
	37.5	129	May-July		29.0
BITTERROOT RIVER					
Missoula (at) (6)	1860	135	May-Sept		1375
	1720	136	May-July		1260
	1500	138	May-June		1084
CLARK FORK RIVER					
Missoula (below)	3830	129	May-Sept		2961
	3480	131	May-July		2648
	3000	133	May-June		2251
ST. REGIS RIVER					
St. Regis (near)	360	139	May-Sept		259
	340	140	May-July		242
CLARK FORK RIVER					
St. Regis (at)	5150	131	May-Sept	1584	3936
	4730	134	May-July	1339	3517
	4100	137	May-June	1142	2992
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	2300	127	May-Sept		1809
	2100	129	May-July		1631
	1750	128	May-June		1369
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	1900	109	May-Sept	1231	1740
	1760	111	May-July	1129	1590
	1450	108	May-June	968	1336
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2500	118	May-Sept	1314	2120
	2350	119	May-July	1238	1982
	2000	116	May-June	1111	1726

- (5) Adjusted for storage in Painted Rocks Reservoir.
 (6) Difference in observed flow Clark Fork above and below Missoula.
 (7) Adjusted for storage in Hungry Horse Reservoir.
 (10) Adjusted for diversion into Sunset Highline Canal.

1	10	10	10	10	10
2	10	10	10	10	10
3	10	10	10	10	10
4	10	10	10	10	10
5	10	10	10	10	10
6	10	10	10	10	10
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8	10	10	10	10	10
9	10	10	10	10	10
10	10	10	10	10	10
11	10	10	10	10	10
12	10	10	10	10	10
13	10	10	10	10	10
14	10	10	10	10	10
15	10	10	10	10	10
16	10	10	10	10	10
17	10	10	10	10	10
18	10	10	10	10	10
19	10	10	10	10	10
20	10	10	10	10	10
21	10	10	10	10	10
22	10	10	10	10	10
23	10	10	10	10	10
24	10	10	10	10	10
25	10	10	10	10	10
26	10	10	10	10	10
27	10	10	10	10	10
28	10	10	10	10	10
29	10	10	10	10	10
30	10	10	10	10	10
31	10	10	10	10	10
32	10	10	10	10	10
33	10	10	10	10	10
34	10	10	10	10	10
35	10	10	10	10	10
36	10	10	10	10	10
37	10	10	10	10	10
38	10	10	10	10	10
39	10	10	10	10	10
40	10	10	10	10	10
41	10	10	10	10	10
42	10	10	10	10	10
43	10	10	10	10	10
44	10	10	10	10	10
45	10	10	10	10	10
46	10	10	10	10	10
47	10	10	10	10	10
48	10	10	10	10	10
49	10	10	10	10	10
50	10	10	10	10	10
51	10	10	10	10	10
52	10	10	10	10	10
53	10	10	10	10	10
54	10	10	10	10	10
55	10	10	10	10	10
56	10	10	10	10	10
57	10	10	10	10	10
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65	10	10	10	10	10
66	10	10	10	10	10
67	10	10	10	10	10
68	10	10	10	10	10
69	10	10	10	10	10
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71	10	10	10	10	10
72	10	10	10	10	10
73	10	10	10	10	10
74	10	10	10	10	10
75	10	10	10	10	10
76	10	10	10	10	10
77	10	10	10	10	10
78	10	10	10	10	10
79	10	10	10	10	10
80	10	10	10	10	10
81	10	10	10	10	10
82	10	10	10	10	10
83	10	10	10	10	10
84	10	10	10	10	10
85	10	10	10	10	10
86	10	10	10	10	10
87	10	10	10	10	10
88	10	10	10	10	10
89	10	10	10	10	10
90	10	10	10	10	10
91	10	10	10	10	10
92	10	10	10	10	10
93	10	10	10	10	10
94	10	10	10	10	10
95	10	10	10	10	10
96	10	10	10	10	10
97	10	10	10	10	10
98	10	10	10	10	10
99	10	10	10	10	10
100	10	10	10	10	10

The above is a list of the names of the persons who have been
 admitted to the office of the Secretary of the Board of Education
 since the last meeting of the Board.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at) (7)	6950	120	May-Sept	3831	5784
	6400	121	May-July	3543	5305
	5300	117	May-June	3102	4514
SWAN RIVER					
Big Fork (near)	800	129	May-Sept		622
	690	129	May-July		535
FLATHEAD RIVER					
Polson (near) (8)	8350	122	May-Sept	4245	6841
	7590	121	May-July	3997	6269
	6300	119	May-June	3477	5302
CLARK FORK RIVER					
Plains (near) (8)	14100	126	May-Sept	6011	11182
	12900	128	May-July	5412	10103
	10700	126	May-June	4662	8514
THOMPSON RIVER					
Thompson Falls (near)	295	129	May-Sept		229
	260	130	May-July		200
PROSPECT CREEK					
Thompson Falls (at)	155	134	May-Sept		116
	145	136	May-July		107
CLARK FORK RIVER					
Whitehorse Rapids (at) (9)	15600	124	May-Sept		11048
	14280	127	May-July		10012
	11800	124	May-June		8196

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near) (11) (12)	150	142	May-Sept	84.3	106
	135	153	May-July	65.5	88.3
RUBY RIVER					
Alder (near)	107	127	May-Sept		84.5
	90.0	129	May-July		70.0
BIG HOLE RIVER					
Melrose (near)	790	119	May-Sept		665
	720	118	May-July		610
BIRCH CREEK					
Glen (near)	15.5	118	May-Sept		13.1
	13.0	119	May-July		10.9
JEFFERSON RIVER					
Silver Star (at) (12)	1020	122	May-Sept		836
	890	122	May-July		732
WILLOW CREEK					
Harrison (near)	25.6	152	May-Sept		16.8
	23.0	154	May-July		14.9
MADISON RIVER					
Grayling (near) (13)	565	133	May-Sept	387	425
	445	139	May-Sept	282	319
MADISON RIVER					
McAllister (near) (14)	1000	136	May-Sept	692	734
	785	141	May-July	512	558
GALLATIN RIVER					
Gateway (near)	615	121	May-Sept		507
	525	124	May-July		422

- (11) Adjusted for storage in Lima Reservoir.
- (12) Adjusted for storage in Clark Canyon Reservoir.
- (13) Adjusted for storage in Hebgen Lake.
- (14) Adjusted for storage in Hebgen and Ennis Lakes.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near) (15)	52.0	125	May-Sept		41.5
	45.0	127	May-July		35.5
GALLATIN RIVER					
Logan (at)	680	135	May-Sept		505
	575	137	May-July		420
MISSOURI RIVER					
Toston (at) (16)	2800	133	May-Sept	1413	2104
	2400	135	May-July	1124	1781
SHEEP CREEK					
White Sulphur Springs (near)	22.0	113	May-Sept	9.5	19.5
	19.0	113	May-July	7.4	16.8
SUN RIVER					
Gibson Dam (at) (17)	620	112	May-Sept	269	556
	570	112	May-July	242	507
BELT CREEK					
Monarch (near)	120	104	May-Sept		115
	110	105	May-July		105
MISSOURI RIVER					
Fort Benton (at) (18)	4100	127	May-Sept		3227
	3470	130	May-July		2660
TWO MEDICINE CREEK					
Browning (near) (19)	250	111	May-Sept		226
	240	113	May-July		213
BADGER CREEK					
Browning (near)	128	108	May-Sept		119
	110	108	May-July		102
MARIAS RIVER					
Shelby (near) (20)	570	117	May-Sept		486
	550	118	May-July		464

- (15) Adjusted for storage in Middle Creek Reservoir.
- (16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.
- (17) Adjusted for storage in Gibson Reservoir and diversions.
- (18) Adjusted for storage in Canyon Ferry Reservoir.
- (19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.
- (20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances and Swift Reservoirs.

Date		Time		Location		Remarks	
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31

The above information is for your information only. It is not intended to be used as a basis for any action. The information is subject to change without notice.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER Virgelle (at) (21)	4800 4100	126 128	May-Sept May-July		3799 3199
SOUTH FORK JUDITH RIVER Utica (near)	14.0 13.0	101 102	May-Sept May-July		13.9 12.7
MISSOURI RIVER Landusky (near) (21)	5200 4450	125 127	May-Sept May-July		4150 3512
NORTH FORK MUSSELSHELL RIVER Delpine (near)	5.5 4.5	108 107	May-Sept May-July		5.1 4.2
SOUTH FORK MUSSELSHELL RIVER Martinsdale (above)	45.0 43.0	101 103	May-Sept May-July		44.5 41.7
MISSOURI RIVER Fort Peck Dam (below) (22)	4900 4350	124 128	May-Sept May-July		3936 3407
MILK RIVER Eastern Crossing (at)	230	104	May-Sept		33.8
MISSOURI RIVER Wolf Point (near) (22)	5200 4600	127 129	May-Sept May-July		4105 3567
MISSOURI RIVER Williston, N.D. (near) (29)	12900 11200	125 127	May-Sept May-July		10352 8787

SASKATCHEWAN RIVER BASIN

ST. MARY RIVER Babb (near) (30)	525 450	126 129	May-Sept May-July	417 350
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- (21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.
- (22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
- (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.
- (30) Adjusted for storage in Lake Sherburne.

THE UNIVERSITY OF CHICAGO

1	1945	10	10	10	10
2	1946	11	11	11	11
3	1947	12	12	12	12
4	1948	13	13	13	13
5	1949	14	14	14	14
6	1950	15	15	15	15
7	1951	16	16	16	16
8	1952	17	17	17	17
9	1953	18	18	18	18
10	1954	19	19	19	19
11	1955	20	20	20	20
12	1956	21	21	21	21
13	1957	22	22	22	22
14	1958	23	23	23	23
15	1959	24	24	24	24
16	1960	25	25	25	25
17	1961	26	26	26	26
18	1962	27	27	27	27
19	1963	28	28	28	28
20	1964	29	29	29	29
21	1965	30	30	30	30
22	1966	31	31	31	31
23	1967	32	32	32	32
24	1968	33	33	33	33
25	1969	34	34	34	34
26	1970	35	35	35	35
27	1971	36	36	36	36
28	1972	37	37	37	37
29	1973	38	38	38	38
30	1974	39	39	39	39
31	1975	40	40	40	40
32	1976	41	41	41	41
33	1977	42	42	42	42
34	1978	43	43	43	43
35	1979	44	44	44	44
36	1980	45	45	45	45
37	1981	46	46	46	46
38	1982	47	47	47	47
39	1983	48	48	48	48
40	1984	49	49	49	49
41	1985	50	50	50	50
42	1986	51	51	51	51
43	1987	52	52	52	52
44	1988	53	53	53	53
45	1989	54	54	54	54
46	1990	55	55	55	55
47	1991	56	56	56	56
48	1992	57	57	57	57
49	1993	58	58	58	58
50	1994	59	59	59	59
51	1995	60	60	60	60
52	1996	61	61	61	61
53	1997	62	62	62	62
54	1998	63	63	63	63
55	1999	64	64	64	64
56	2000	65	65	65	65
57	2001	66	66	66	66
58	2002	67	67	67	67
59	2003	68	68	68	68
60	2004	69	69	69	69
61	2005	70	70	70	70
62	2006	71	71	71	71
63	2007	72	72	72	72
64	2008	73	73	73	73
65	2009	74	74	74	74
66	2010	75	75	75	75
67	2011	76	76	76	76
68	2012	77	77	77	77
69	2013	78	78	78	78
70	2014	79	79	79	79
71	2015	80	80	80	80
72	2016	81	81	81	81
73	2017	82	82	82	82
74	2018	83	83	83	83
75	2019	84	84	84	84
76	2020	85	85	85	85
77	2021	86	86	86	86
78	2022	87	87	87	87
79	2023	88	88	88	88
80	2024	89	89	89	89
81	2025	90	90	90	90
82	2026	91	91	91	91
83	2027	92	92	92	92
84	2028	93	93	93	93
85	2029	94	94	94	94
86	2030	95	95	95	95
87	2031	96	96	96	96
88	2032	97	97	97	97
89	2033	98	98	98	98
90	2034	99	99	99	99
91	2035	100	100	100	100
92	2036	101	101	101	101
93	2037	102	102	102	102
94	2038	103	103	103	103
95	2039	104	104	104	104
96	2040	105	105	105	105
97	2041	106	106	106	106
98	2042	107	107	107	107
99	2043	108	108	108	108
100	2044	109	109	109	109

THE UNIVERSITY OF CHICAGO

1945-1946

1947-1948

1949-1950

1951-1952

1953-1954

1955-1956

1957-1958

1959-1960

1961-1962

1963-1964

1965-1966

1967-1968

1969-1970

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2011-2012

2013-2014

2015-2016

2017-2018

2019-2020

2021-2022

2023-2024

2025-2026

2027-2028

2029-2030

2031-2032

2033-2034

2035-2036

2037-2038

2039-2040

2041-2042

2043-2044

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2300	120	May-Sept	1422	1915
	1920	122	May-July	1168	1581
YELLOWSTONE RIVER					
Livingston (near)	2700	122	May-Sept		2212
	2240	123	May-July		1821
BOULDER RIVER					
Big Timber (at)	430	117	May-Sept		367
	405	120	May-July		338
STILLWATER RIVER					
Absarokee (near) (25)	650	114	May-Sept		571
	550	116	May-July		474
CLARKS FORK RIVER					
Belfry (near)	700	119	May-Sept		585
	620	118	May-July		524
ROCK CREEK					
Red Lodge (near)	126	117	May-Sept	107	108
	97.0	119	May-July	78	81.7
YELLOWSTONE RIVER					
Billings (at)	4850	121	May-Sept	3297	4016
	4160	123	May-July	2703	3383
BIG HORN RIVER					
St. Xavier (near) (26)	2200	128	May-Sept	1701	1724
	2080	132	May-July	1356	1580
LITTLE BIG HORN RIVER					
Lodgegrass (near) (28)	105	79	May-Sept		132
	90.0	78	May-July		115
YELLOWSTONE RIVER					
Miles City (at) (27)	7100	120	May-Sept		5931
	6350	124	May-July		5108
YELLOWSTONE RIVER					
Sidney (near) (27)	7500	122	May-Sept		6138
	6700	125	May-July		5367

(25) Adjusted for storage in Mystic Lake.

(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.

(27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.

(28) Sum Little Big Horn below Pass Creek and Lodgegrass Creek near Wyola.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average
ABUNDANCE LAKE	2800	4/24	76	32.4	17.4	23.0
ADKROSE	5480	5/02	34	14.8	12.2	13.9
ARCH FALLS	7350	4/30	48	18.4	17.0	16.2
AVALANCHE	7100	5/01	75	31.4	26.4	26.5
BAID EAGLE PEAK	5700	5/02	189	92.8	47.7	69.3
BALL RIDGE	7500	5/01	30	11.0	12.7	14.6
BANFIELD MOUNTAIN	5600	5/02	74	37.2	14.4	23.7
BANFIELD MOUNTAIN PILLOW	5600	5/02	SP	30.9	14.3	20.9
BAKEE CREEK	5500	4/30	148	74.3	26.6	49.6
BAKEE MIDWAY	4600	4/30	105	50.9	18.0	35.1
BAKEE TRAIL	3800	5/01	4	1.6	.0	1.2
BASSO PEAK	5150	5/02	15	6.8	.7	8.5
BATTLE RIDGE	6020	5/01	0	.0	-	5.4
BEAR BASIN	8150	4/29	80	32.3	20.8	24.9
BEAR MOUNTAIN (ID)	5400	4/26	234	118.0	43.3	68.8
BEAR PAW SKI AREA	5200	4/30	0	.0	3.8	7.2
BERRY MEADOW	7000	4/29	20	6.2	6.0	9.2
BIS COULEE	5100	5/01	7	2.7	-	-
BIG CREEK	6750	5/01	151	73.5	41.2	54.5
BIG SKY M.V.	7450	4/29	62	25.8	16.0	-
BIG SNOWY	7150	5/01	64	27.6	26.0	24.9
BIG SPRINGS (ID)	6500	4/29	53	23.3	16.6	-
BLACK BEAR	7950	4/29	137	66.6	35.3	-
BLACK BEAR PILLOW	7950	4/29	SP	63.8	35.0	-
BLACK CANYON (ID)	7850	4/25	121	52.0	34.3	-
BLACK COOSE (ID)	8120	4/25	133	59.8	38.2	-
BLACK PINE	7100	4/29	42	17.8	9.1	14.3
BLACK PINE PILLOW	7100	4/29	SP	16.3	10.4	15.2
BLOODY DICK	7600	5/01	40	16.0	8.8	14.2
BOIS SOTS	8000	4/30	30	11.4	20.8	-
BOULDER MOUNTAIN	7950	4/29	76	31.1	16.1	22.2
BOYELDER CREEK	5100	4/30	0	.0	5.0	-
BRADHAM LAKES	8850	4/29	107	44.0	32.2	36.6
BRIDGER BOUL	7250	5/01	83	33.4	30.2	35.1
BRIDGER BOUL PILLOW	7250	5/01	SP	36.3	29.4	34.0
BRISTOW CREEK	3900	5/02	0	.0	.0	2.3
BUSH CREEK TIMBER	5000	4/30	24	9.6	3.0	8.2
BULL MOUNTAIN	6600	5/01	0	.0	-	-
CABIN CREEK	5200	4/24	8	2.6	.0	2.2
CALL ROAD	8050	4/29	47	16.7	15.1	13.9
CALVERT CREEK	6450	4/27	28	11.8	3.8	9.2
CAMP MISERY	6400	5/01	160	88.0	47.9	52.3
CAMP SENIA	7890	4/30	29	10.7	17.3	9.8
CANYON (WY)	7750	5/01	47	20.0	13.6	16.0
CARROT BASIN	9000	5/01	117	54.8	40.3	43.4
CARROT BASIN PILLOW	9000	5/01	SP	41.3	-	-
CEGAR GROVE	4100	5/01	28	12.1	.0	6.8
CRESSMAN RESERVOIR	6200	5/01	0	.0	3.1	2.5

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
CLOVER MEADOW	8600	4/29	58	24.5	19.5	20.8
COLE CREEK	7850	5/01	53	20.0	-	-
COMBINATION	5600	4/29	4	1.5	.0	5.9
COMBINATION PILLOW	5600	4/29	SP	.0	.0	-
COCKE STATION	8150	4/26	51	24.2	16.6	22.0
COPPER BOTTOM	5200	5/03	6	2.6	.0	-
COPPER CAMP	6950	5/03	80	39.2	20.8	-
COPPER CREEK	5700	5/03	20	9.1	2.8	12.4
COPPER LAKE CREEK	6100	5/03	58	26.4	13.5	-
COPPER MOUNTAIN	7700	4/30	31	11.0	7.7	12.5
COYOTE HILL	4200	5/01	6	2.0	.0	3.5
CRYSTAL LAKE	6100	5/01	32	15.0	21.2	16.2
DAL CREEK LAKE	8400	4/29	52	19.8	17.5	17.6
DAISY PEAK	7600	4/29	27	8.6	13.7	12.4
DARKHORSE LAKE	8600	4/29	91	39.4	21.9	29.4
DAVIS CREEK	5400	4/30	71	37.2	16.9	24.2
DEADMAN CREEK	6450	5/01	21	9.0	6.7	10.6
DEADMAN CREEK PILLOW	6450	5/01	SP	8.0	6.0	8.2
DESERT MOUNTAIN	5600	5/02	51	22.0	11.8	15.2
DEVILS SLICE	8100	4/30	84	32.4	26.4	28.6
DIVIDE	7800	4/29	36	12.8	10.8	11.5
FLY HILL	6400	5/01	6	2.2	-	-
FAST BOULDER S	9250	4/30	96	41.5A	28.0	-
FLK HORN SPRINGS	7800	4/30	34	10.9	6.3	9.1
ELK PEAK	8000	4/30	58	22.6	13.8	22.1
FATTY CREEK	5500	5/01	80	36.2	17.9	25.0
FISHER CREEK	9100	4/26	128	57.2	35.4	42.4
FISHER CREEK PILLOW	9100	4/26	SP	54.7	33.4	38.9
FLEECER RIDGE	7500	5/01	32	11.4	-	-
FOOLHEN	8280	4/29	61	25.2	12.4	19.9
FOUR MILE	6900	5/02	19	7.4	11.6	8.8
FRED BURK PASS	8000	4/29	85	32.1	21.7	32.6
FROHNER MEADOWS	6480	4/30	15	5.5	6.4	-
FROHNER MEADOWS PILLOW	6480	4/30	SP	9.2	9.6	-
GARVER CREEK	4250	4/30	14	6.1	.0	5.4
GARVER CREEK PILLOW	4250	4/30	SP	6.1	-	5.1
GIBBONS PASS	7100	5/01	70	31.9	20.2	24.2
GOAT MOUNTAIN	7000	4/25	30	10.4	4.4	10.9
GOLD STONE	8100	5/01	56	22.9	12.6	19.4
GRASSHOPPER	7000	4/30	11	4.9	6.4	5.9
GRAVES CREEK	4300	4/29	54	23.0	7.6	16.3
GRIFFIN CREEK DIVIDE	5150	5/01	25	10.7	3.4	8.6
GRIZZLY PEAK	8400	5/01	54	20.2	35.8	21.1
HANKINS LAKE	6450	4/30	116	51.5	29.8	35.4
HANKINS LAKE PILLOW	6450	4/30	SP	52.1	26.9	33.2
HEART LAKE TRAIL	4800	5/03	58	26.4	1.6	19.0
HERGEN DAM	6550	5/02	11	4.5	6.2	6.6
HELL ROARING DIVIDE	5770	5/01	102	47.7	25.0	34.3
HIGHWOOD DIVIDE	5650	5/01	0	.0	-	-
HIGHWOOD STATION	4600	5/01	2	.4	-	-

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
BOE 3400K	4550	5/02	4	1.6	.0	1.9
BOE MEADOW	6600	4/30	35	14.5	17.5	11.6
BOODOO BASIN	6000	5/03	153	75.2	34.8	55.2
BOODOO CREEK	5900	5/03	148	72.2	31.6	52.2
BURSON BAY DIVIDE	5800	4/29	54	22.8	14.3	20.6
ICEBERG LAKE #5	5600	5/01	90	43.6	32.2	33.5
INDEPENDENCE	7850	5/01	50	23.6	18.2	19.8
INTERGAARD	6450	5/01	23	8.9	6.8	9.1
ISLAND PARK (ID)	6310	4/29	36	15.2	9.1	11.2
JAKOBE LAKE TRAIL	7200	5/03	28	10.8	9.3	8.3
JOHNSON PARK	6450	4/29	9	.0	2.1	3.5
JOSEPHINE LAKE #9	4900	4/31	58	25.0	13.7	18.9
KINGS HILL	7500	4/29	50	19.0	12.2	17.1
KIRKENS CAMP	3720	4/30	0	.0	1.8	-
LAKE CAMP (WY)	7850	4/30	31	9.5	5.2	8.4
LAKE CREEK	6100	5/02	6	2.0	-	2.7
LAKEVIEW CANYON	6450	4/30	37	13.5	9.4	12.2
LAKEVIEW RIDGE	7400	4/30	29	10.5	8.9	10.0
LATHAM SPRINGS (ID)	7650	4/29	110	52.0	34.2	-
LICK CREEK	6860	4/30	28	10.8	17.2	11.1
LICK CREEK PILLOW	6860	4/30	SP	9.4	15.3	10.7
LITTLE PARK	7400	4/29	60	23.3	14.9	18.3
LOHME CREEK	4300	4/30	4	1.6	.0	2.7
LOLO PASS (ID)	5230	4/29	64	40.5	13.5	32.3
LOOKOUT (ID)	5250	5/01	110	48.0	15.8	37.7
LOST HORSE	5940	4/30	105	50.4	26.0	34.3
LOST SOUL	4800	5/02	32	14.5	2.4	8.9
LOVER TWIN	7900	5/02	68	30.2	25.0	26.0
LUPRECHT FLUME	4500	4/29	0	.0	.0	.0
LUPRECHT FLUME PILLOW	4500	4/29	SP	.0	.0	.0
LUPRECHT FOREST # 3	5450	4/29	6	3.1	.4	4.0
LUPRECHT FOREST # 4	4650	4/29	0	.0	.0	.4
LUPRECHT FOREST # 6	4040	4/29	0	.0	.0	.0
LUPRECHT HYDROPLUT	4200	4/29	0	.0	.0	.0
LUPINE CREEK (WY)	7300	4/29	34	12.0	6.4	7.7
MADISON PLATEAU	7750	4/29	79	35.4	20.8	22.4
MADISON PLATEAU PILLOW	7750	4/29	SP	36.7	21.3	23.7
MARIAS PASS	5250	5/01	42	17.6	7.5	19.3
MAYNARD CREEK	6210	5/01	48	21.6	20.5	21.8
MAYNARD CREEK PILLOW	6210	5/01	SP	15.0	11.6	14.1
MIDDLE MILL CREEK	7550	4/29	59	23.3	17.2	18.4
MILL CREEK	7500	4/29	34	12.2	17.7	16.5
MINERAL CREEK	4000	4/30	50	20.7	5.4	14.1
MONUMENT PEAK	8800	5/01	92	39.0	22.5	31.6
MOOSE CREEK (ID)	6200	4/29	49	20.9	11.8	16.0
MOUNT ALLEN # 7	5700	4/30	137	67.5	43.3	50.1
MOUNT LOCKHART	6400	4/29	39	22.4	15.0	25.4
MOUNT LOCKHART PILLOW	6400	4/29	SP	26.7	14.4	23.5
MUEL LAKE	7650	4/30	56	25.2	13.6	23.5
NEZ PERCE CAMP	5550	4/29	41	19.2	6.6	12.5

Date		Description		Amount	
1/1/20		Balance		100.00	
1/15/20		Payment		50.00	
2/1/20		Interest		2.50	
2/15/20		Payment		25.00	
3/1/20		Interest		1.25	
3/15/20		Payment		12.50	
4/1/20		Interest		0.62	
4/15/20		Payment		6.25	
5/1/20		Interest		0.31	
5/15/20		Payment		3.12	
6/1/20		Interest		0.16	
6/15/20		Payment		1.56	
7/1/20		Interest		0.08	
7/15/20		Payment		0.78	
8/1/20		Interest		0.04	
8/15/20		Payment		0.39	
9/1/20		Interest		0.02	
9/15/20		Payment		0.19	
10/1/20		Interest		0.01	
10/15/20		Payment		0.09	
11/1/20		Interest		0.00	
11/15/20		Payment		0.04	
12/1/20		Interest		0.00	
12/15/20		Payment		0.02	
1/1/21		Balance		0.00	

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
NEZ PERCE CREEK	6500	4/30	0	.0	3.5	3.5
NEZ PERCE PASS	6570	4/29	34	23.0	10.7	15.6
NOISY BASIN	6040	5/01	161	75.3	-	-
NOISY CREEK	3600	5/01	0	.0	.0	-
NORRIS BASIN (WY)	7500	4/26	26	9.7	7.6	8.0
NORTH FK. ELK CREEK	6250	4/30	25	11.1	5.3	11.5
NORTH FK. ELK CREEK HILL	6250	4/30	SP	9.5	4.4	11.5
NORTH FORK JUCK	6330	5/02	119	57.1	31.2	51.3
NORTH MEADOW	7500	5/02	34	11.7	13.4	11.5
NORTHEAST ENTRANCE	7400	5/01	23	8.8	6.4	7.8
NORTHEAST ENTRANCE HILL.	7400	5/01	SP	8.2	3.1	7.2
NOTCH	8500	4/29	62	24.4	15.6	15.5
OPPER PARK	7150	5/01	48	19.7	-	-
PALISADE CREEK	8250	4/30	94	43.5	25.0	34.2
PEIGAN PASS #6	5500	4/30	117	57.6	37.9	43.1
PETERSON MEADOWS	7200	4/30	34	10.7	10.2	-
PETERSON MEADOWS PILLOW	7200	4/30	SP	12.3	11.1	-
PICKET PIN 0	9450	4/30	33	35.0A	28.5	-
PICKET PIN LOWER	6200	5/03	0	.0	6.4	-
PICKET PIN MIDDLE	7250	5/03	9	4.2	18.6	-
PICKET PIN UPPER	8100	5/03	69	28.7	25.9	-
PICNIC GROUNDS	6200	4/30	0	.0	.0	2.3
PIPESTONE PASS	7200	4/30	0	.0	5.4	6.1
PLACER BASIN F	8800	4/30	65	26.5A	25.0	-
POORMAN CREEK	5100	5/01	99	50.2	16.0	33.2
POORMAN CREEK PILLOW	5100	5/01	SP	51.1	17.9	31.4
PORCUPINE R.S.	6500	5/02	10	4.0	9.5	8.0
POTOMACETON PARK	7150	4/30	32	14.2	11.2	12.0
PTARMIGAN #8	5800	5/01	110	51.2	36.0	42.0
RED LION	7100	4/29	54	21.4	10.4	19.0
RED MOUNTAIN	6000	4/30	72	33.1	14.1	21.0
ROCK CREEK	5600	5/01	0	.0	15.3	10.4
ROCKER PEAK	8000	4/29	51	17.6	14.0	18.0
ROCKER PEAK PILLOW	8000	4/29	SP	19.7	14.8	20.1
ROCKY BOY	4700	4/30	J	.0	3.6	1.5
ROCKY BOY PILLOW	4700	4/30	SP	.0	2.1	2.9
SACAJAWEA	6550	5/01	36	15.8	15.8	14.3
SADDLE MOUNTAIN	7940	5/01	83	37.8	22.6	28.8
SADDLE MOUNTAIN PILLOW	7940	5/01	SP	39.8	22.0	30.2
SAWTELL MOUNTAIN (ID)	8710	4/29	116	49.9	33.5	38.1
SENTINEL CREEK	8300	4/30	68	30.8	22.3	26.1
SHOWER FALLS	8100	4/30	90	38.2	29.7	32.4
SHOWER FALLS PILLOW	8100	4/30	SP	34.6	29.3	32.2
SKALKAHU SUMMIT	7260	4/29	78	32.7	18.2	28.0
SLAG-A-MELT LAKE	8750	4/29	67	39.0	20.4	29.1
SLIDE ROCK MOUNTAIN	7100	4/30	57	23.6	12.6	20.0
SMUGGLER MINE	6960	4/29	35	12.1	10.0	11.6
SOUTH FORK SHIELDS	8100	5/02	77	33.2	24.6	30.0
SPOK PARK	8000	5/01	60	27.0	16.0	26.0
SPOK PARK PILLOW	8100	5/01	SP	26.2	15.5	25.8

General Information				Detailed Data			
No.	Date	Place	Remarks	No.	Date	Place	Remarks

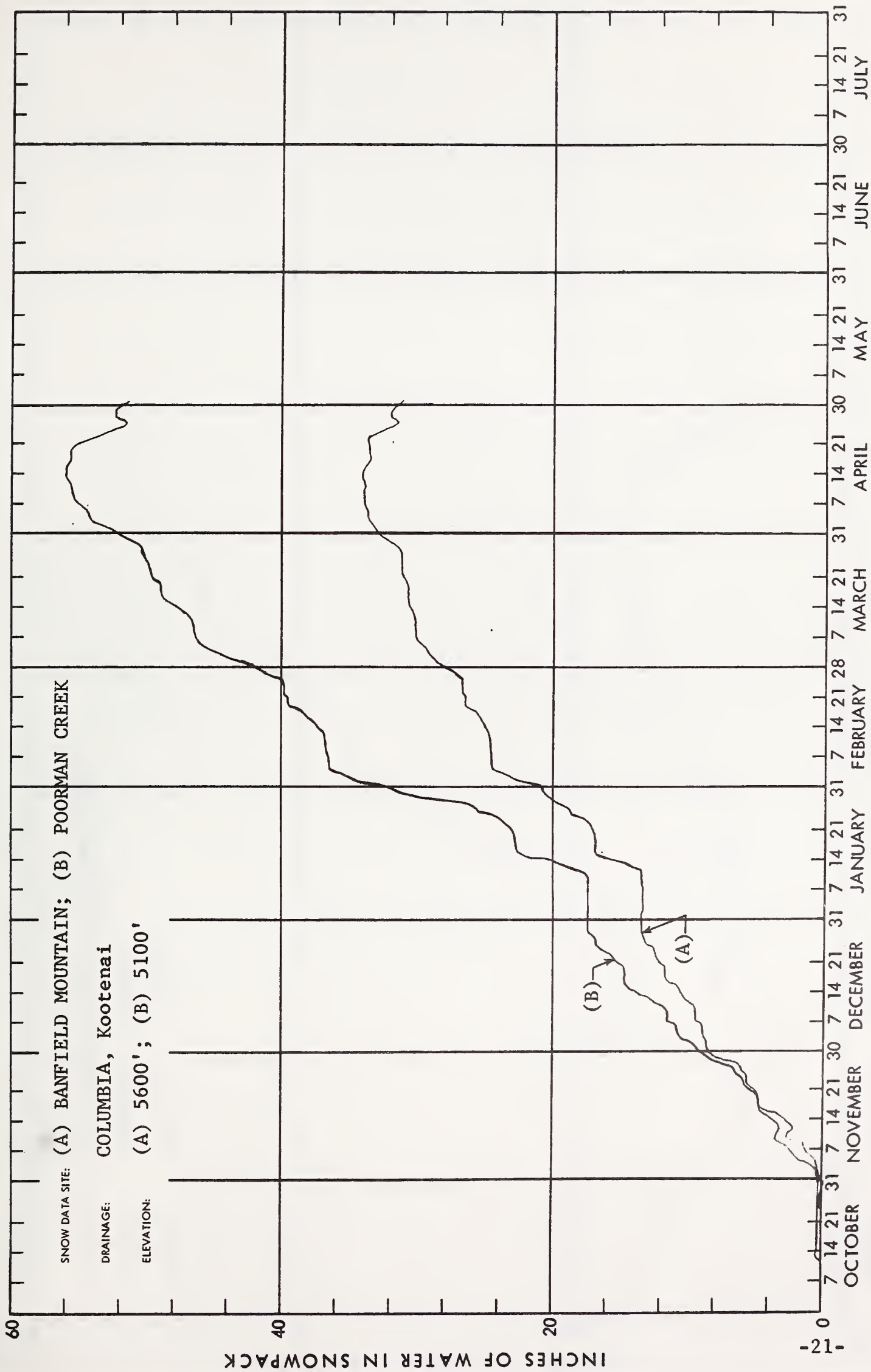
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94	Jan 94	London	Arrived	761	Jan 761	London	Departed
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96	Jan 96	London	Arrived	781	Jan 781	London	Departed
97	Jan 97	London	Arrived	791	Jan 791	London	Departed
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SNOW

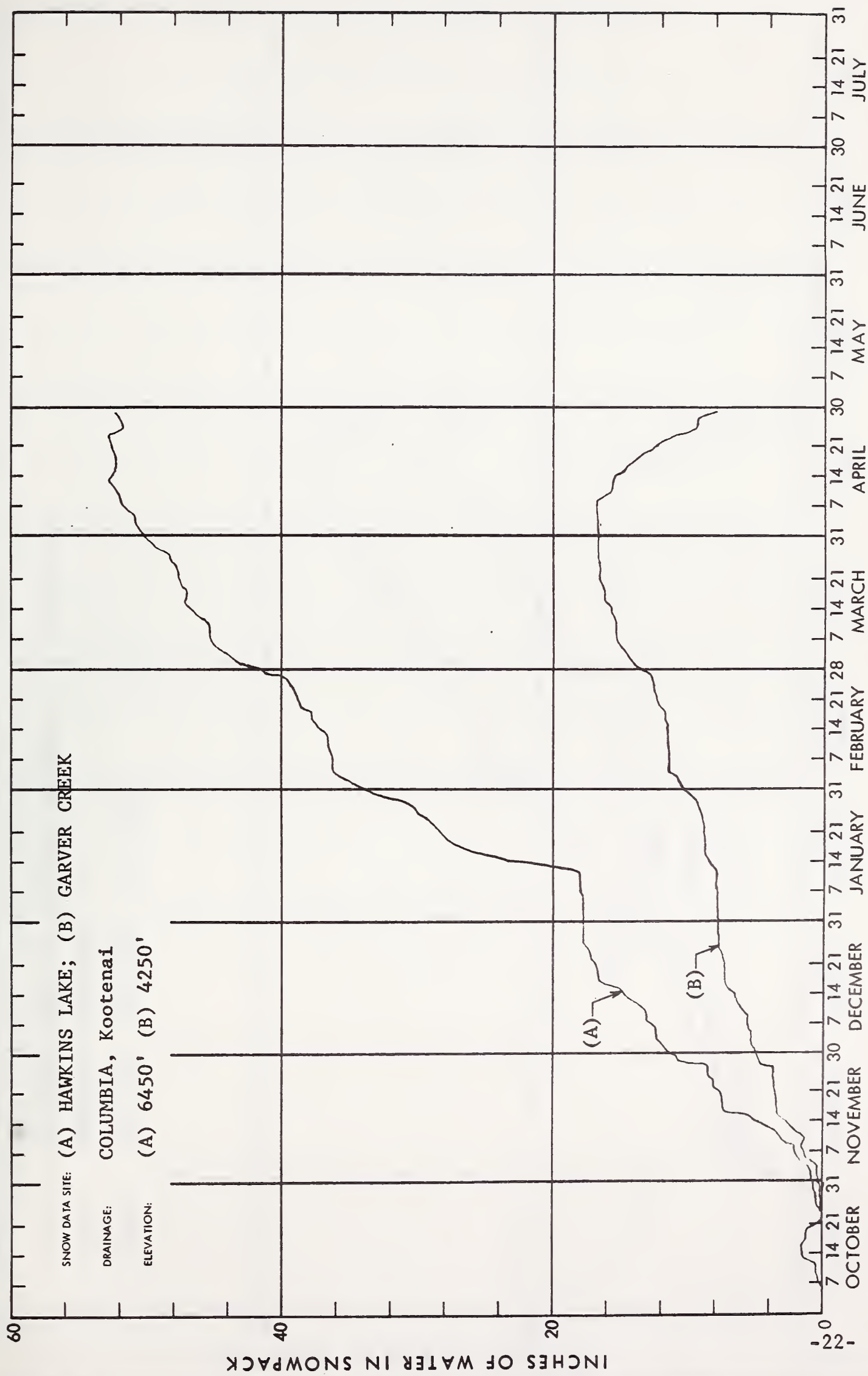
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
STAHL PEAK	6050	4/29	152	66.6	43.9	44.3
STAR LAKE E	8600	4/30	144	66.0A	38.0	-
STEMPLE PASS	6600	5/01	30	9.4	9.2	11.9
STORM LAKE	7780	4/30	42	13.1	15.2	17.4
STUART MILL	6500	5/01	0	.0	2.7	6.7
STUART MOUNTAIN	7400	5/01	93	42.7	26.7	35.8
SUCKER CREEK	3960	4/30	0	.0	2.7	-
SYLVAN PASS (WY)	7100	4/30	35	12.9	9.8	11.1
TARGHEE PASS (ID)	7000	4/29	44	15.9	9.6	15.4
TAYLOR ROAD	4080	4/30	0	.0	2.6	-
TEN MILE LOWER	6600	5/02	12	4.0	7.8	6.0
TEN MILE MIDDLE	6800	5/02	36	11.2	12.9	13.8
TEN MILE UPPER	8000	5/02	44	14.6	14.2	17.1
TEPEE CREEK	8000	5/02	58	22.4	-	18.0
TEPEE CREEK PILLOW	8000	5/02	SP	16.9	13.0	-
TIMBERLINE CREEK	8850	4/30	60	21.9	25.2	19.8
TV MOUNTAIN	6800	5/01	61	25.7	13.4	21.9
TWELVEMILE CREEK	5600	4/30	58	27.2	4.5	15.6
TWELVEMILE CREEK PILLOW	5600	4/30	SP	27.6	8.4	14.5
TWENTY-ONE MILE	7150	5/02	48	22.1	10.6	17.6
TWIN LAKES	6510	4/30	133	63.9	30.9	46.8
TWIN LAKES PILLOW	6400	4/30	SP	55.7	28.7	44.8
VALLEY VIEW (ID)	6500	4/29	30	11.8	8.0	14.2
WALDRON	5600	4/26	11	4.1	.0	7.5
WALDRON PILLOW	5600	4/26	SP	9.3	5.8	10.2
WEASEL DIVIDE	5450	4/29	119	53.1	30.4	37.2
WEST YELLOWSTONE	6700	5/02	21	9.2	6.9	7.2
WEST YELLOWSTONE PILLOW	6700	4/29	SP	8.5	5.8	6.5
WHISKEY CREEK	6800	4/29	58	27.6	16.0	20.3
WHISKEY CREEK PILLOW	6800	4/29	SP	23.8	14.9	-
WHITE ELEPHANT (ID)	7700	4/29	93	39.5	24.6	-
WHITE MILL	8700	4/26	93	40.7	25.4	30.0
WHITE MILL PILLOW	8700	4/26	SP	34.5	-	-
WHITE PINE RIDGE	8850	4/29	16	4.4	7.6	5.0
WILLOW CREEK	6500	5/01	1	.4	-	-
WOLVERINE (WY)	7650	5/01	31	11.0	7.3	-
WRONG CREEK	5700	4/23	35	14.5	3.6	11.9
WRONG RIDGE	6800	4/23	57	24.7	11.9	22.2

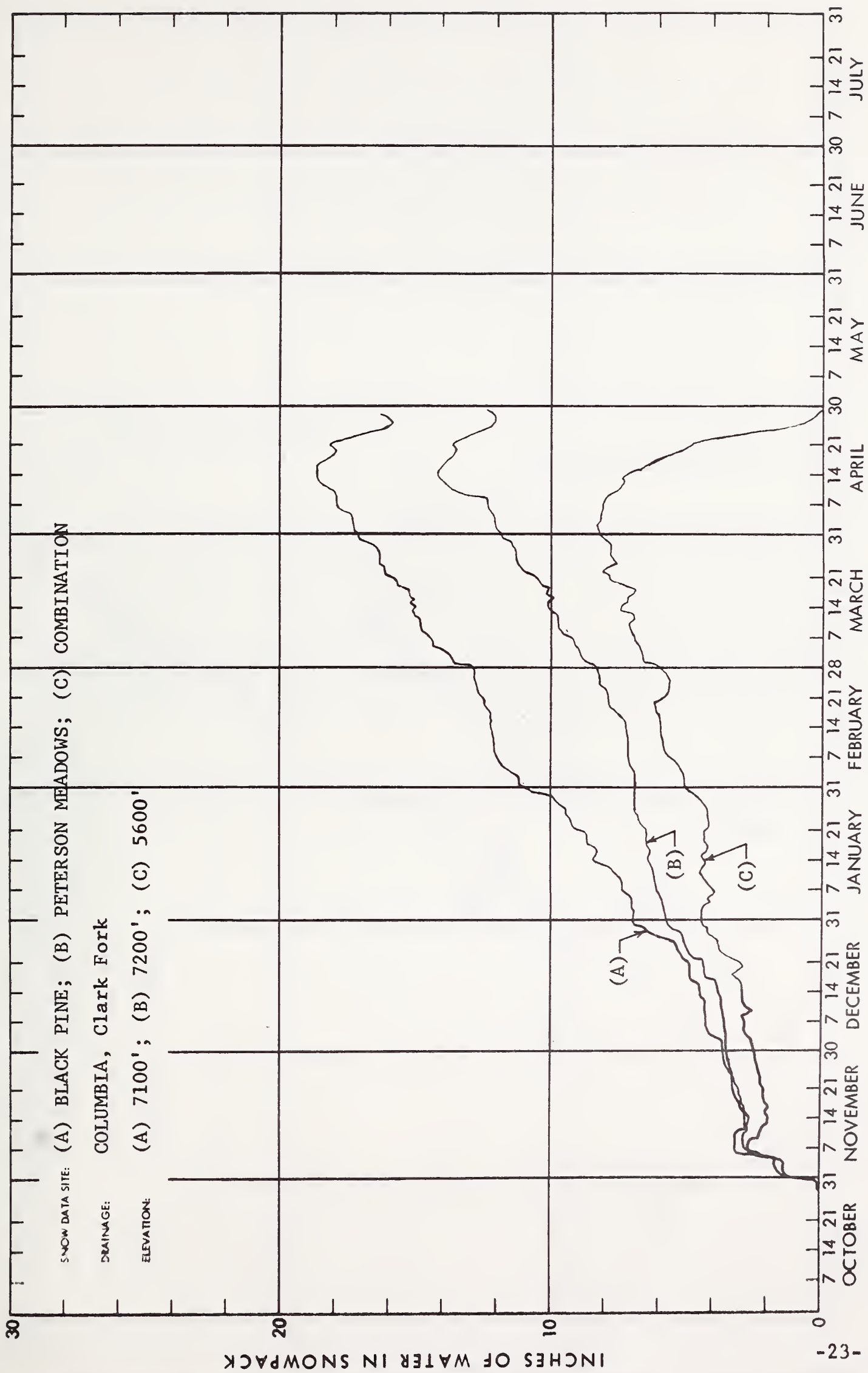
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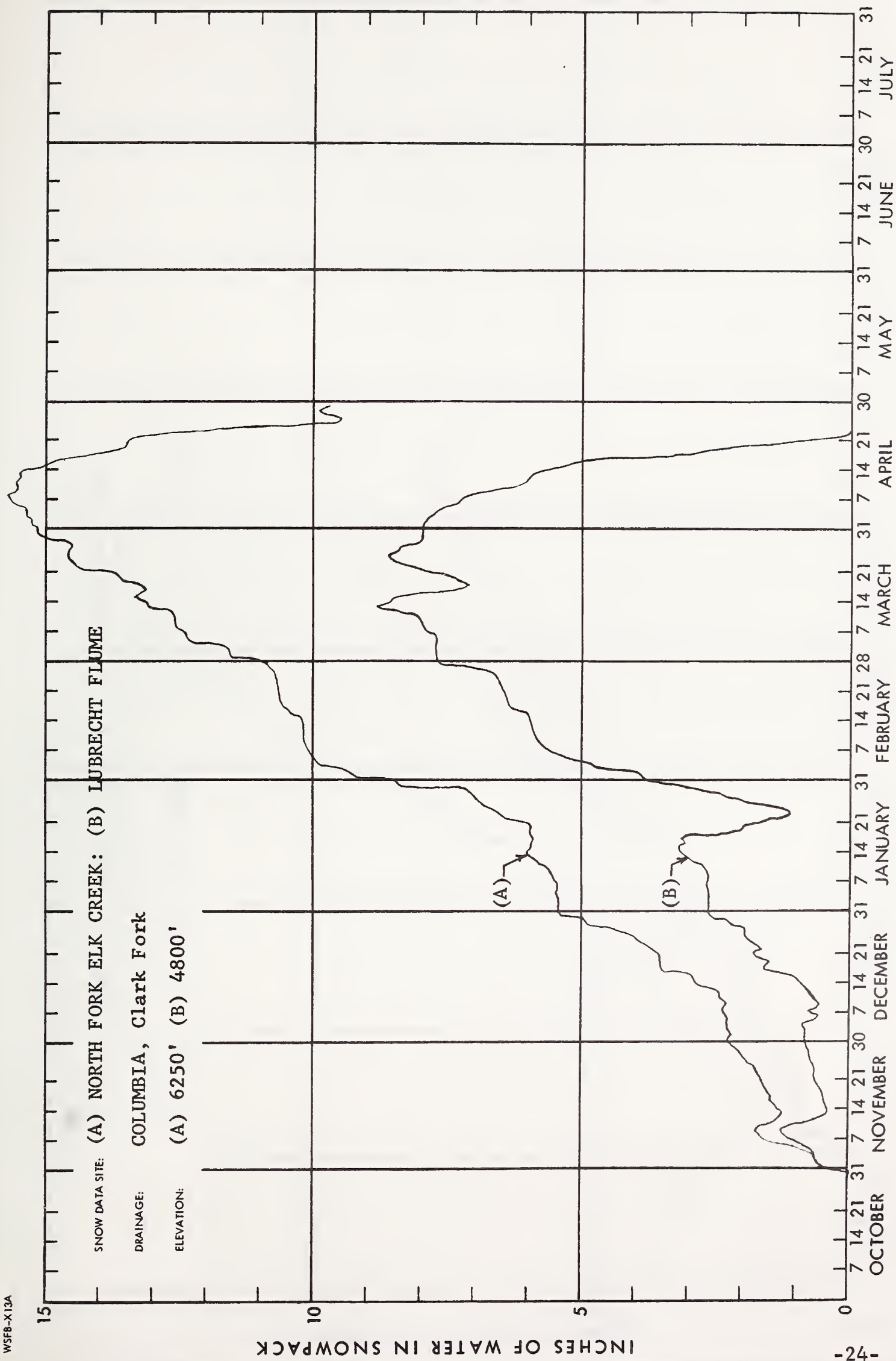


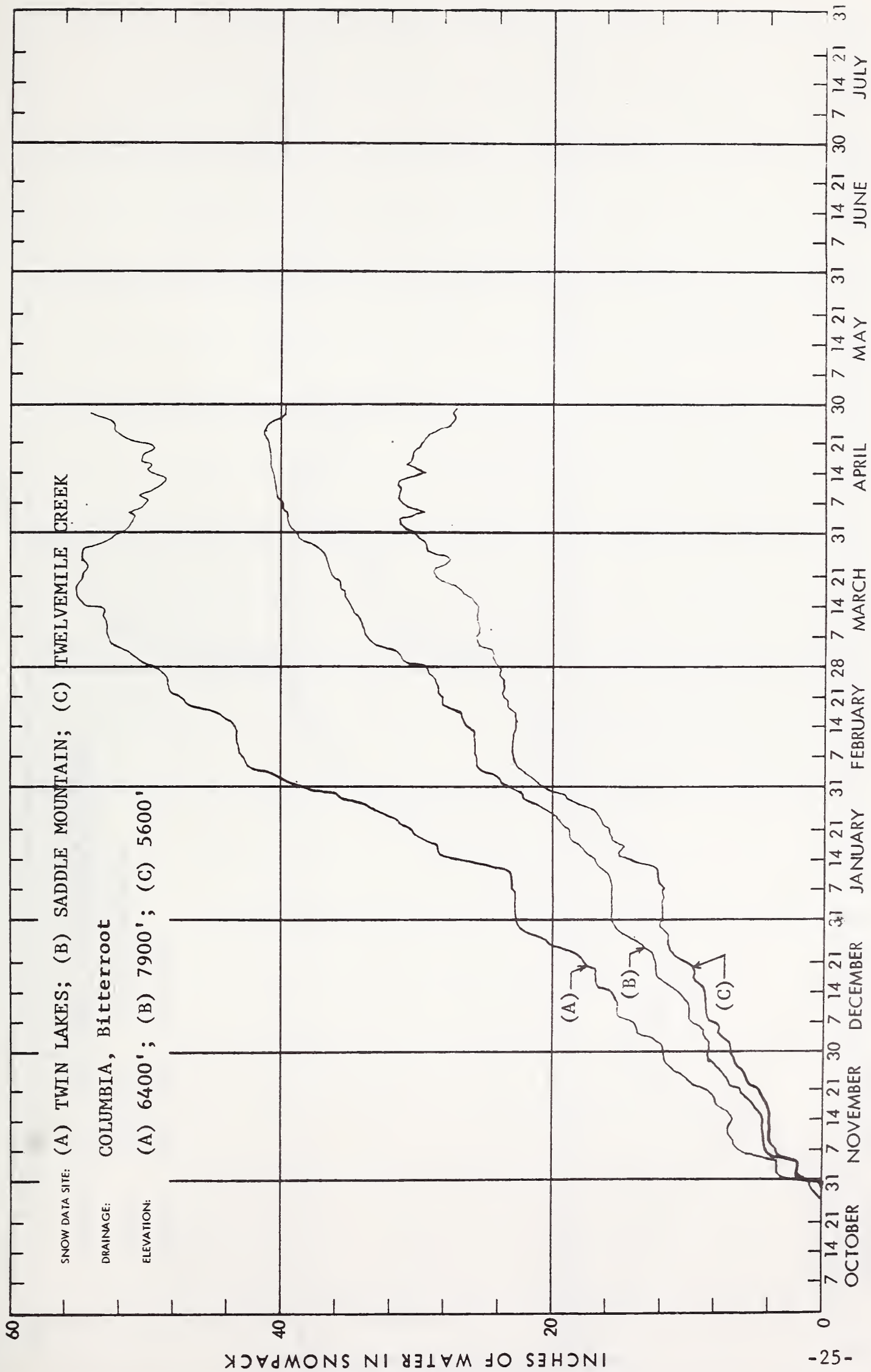
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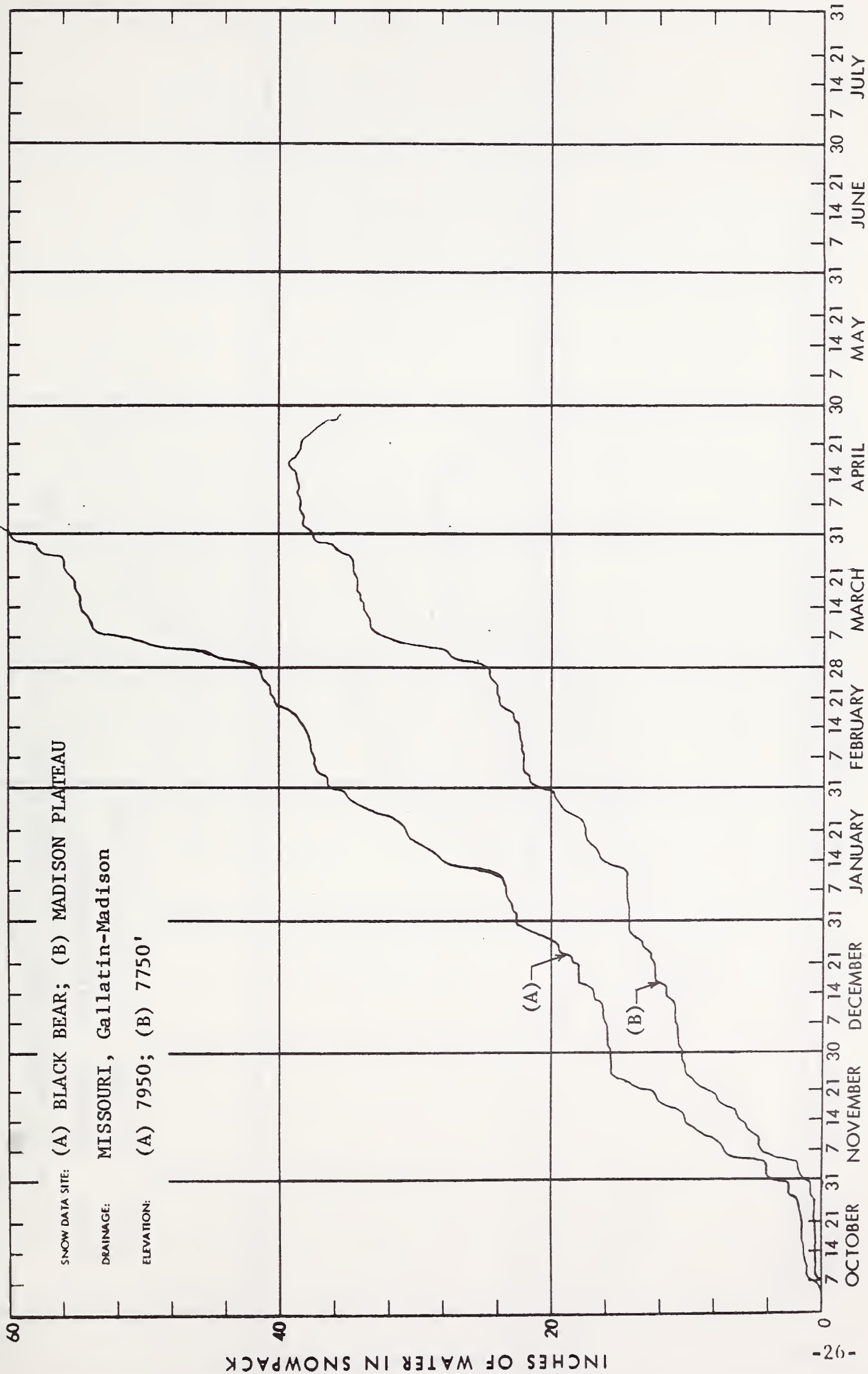
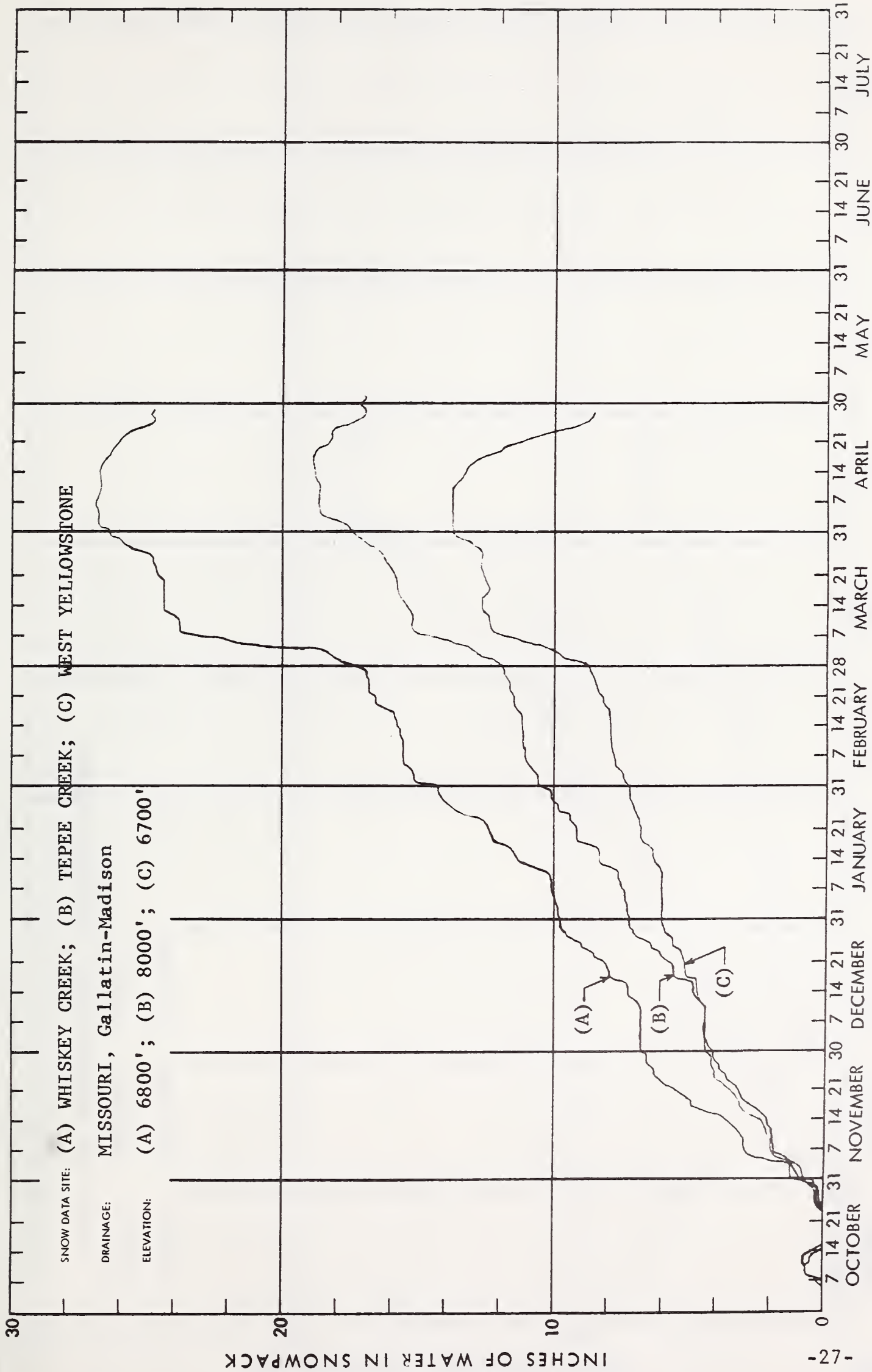


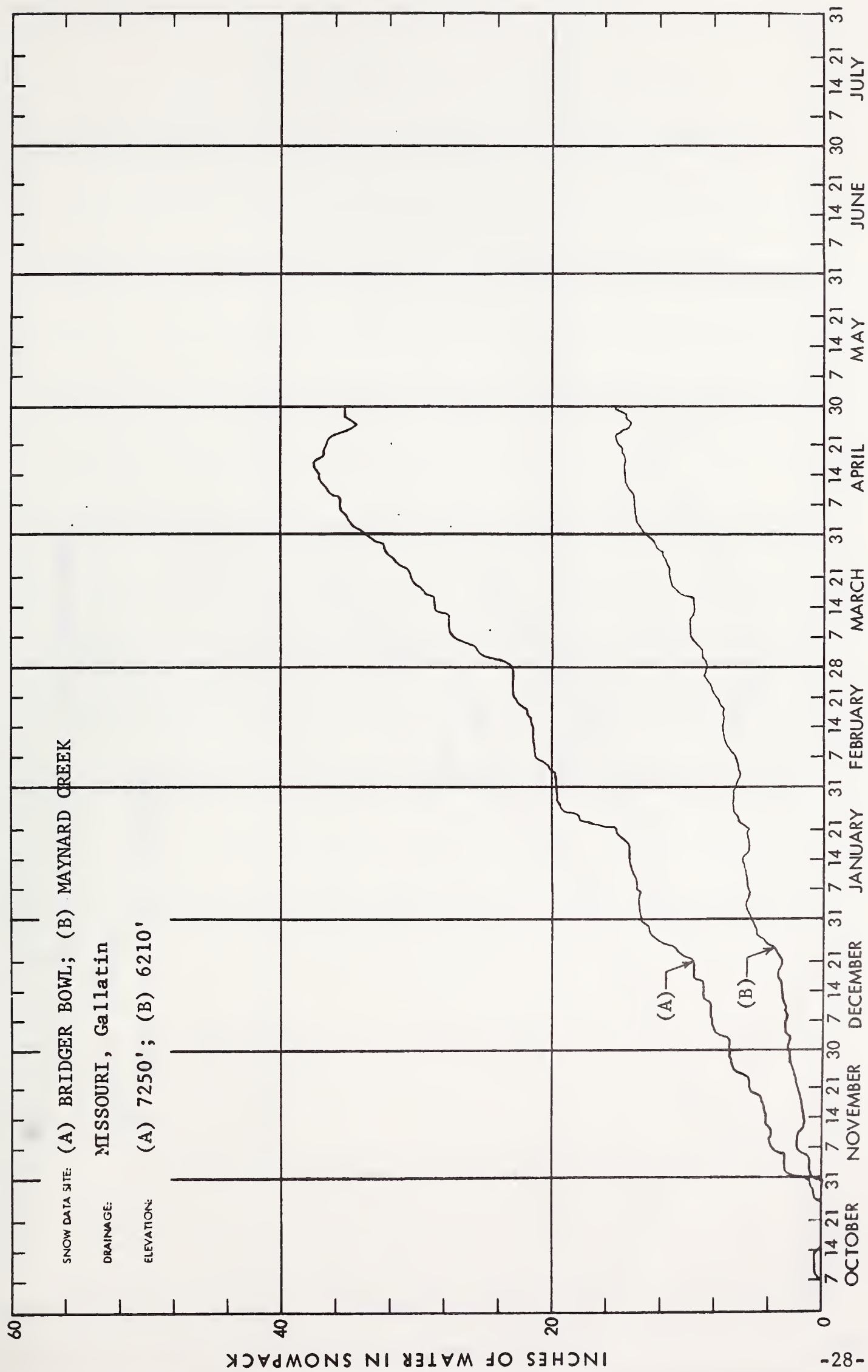


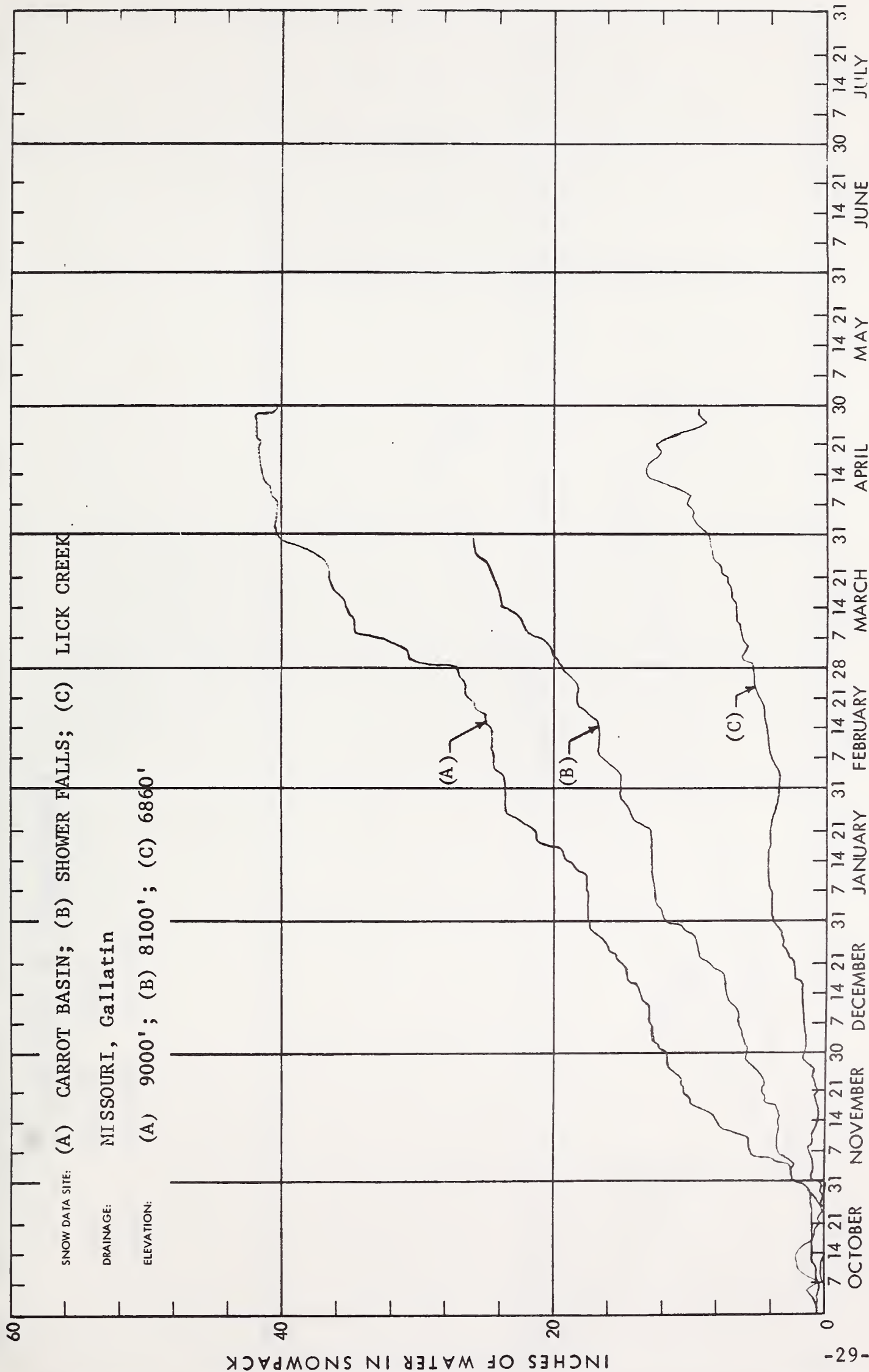
Figure 1: Time-series plots for various parameters.



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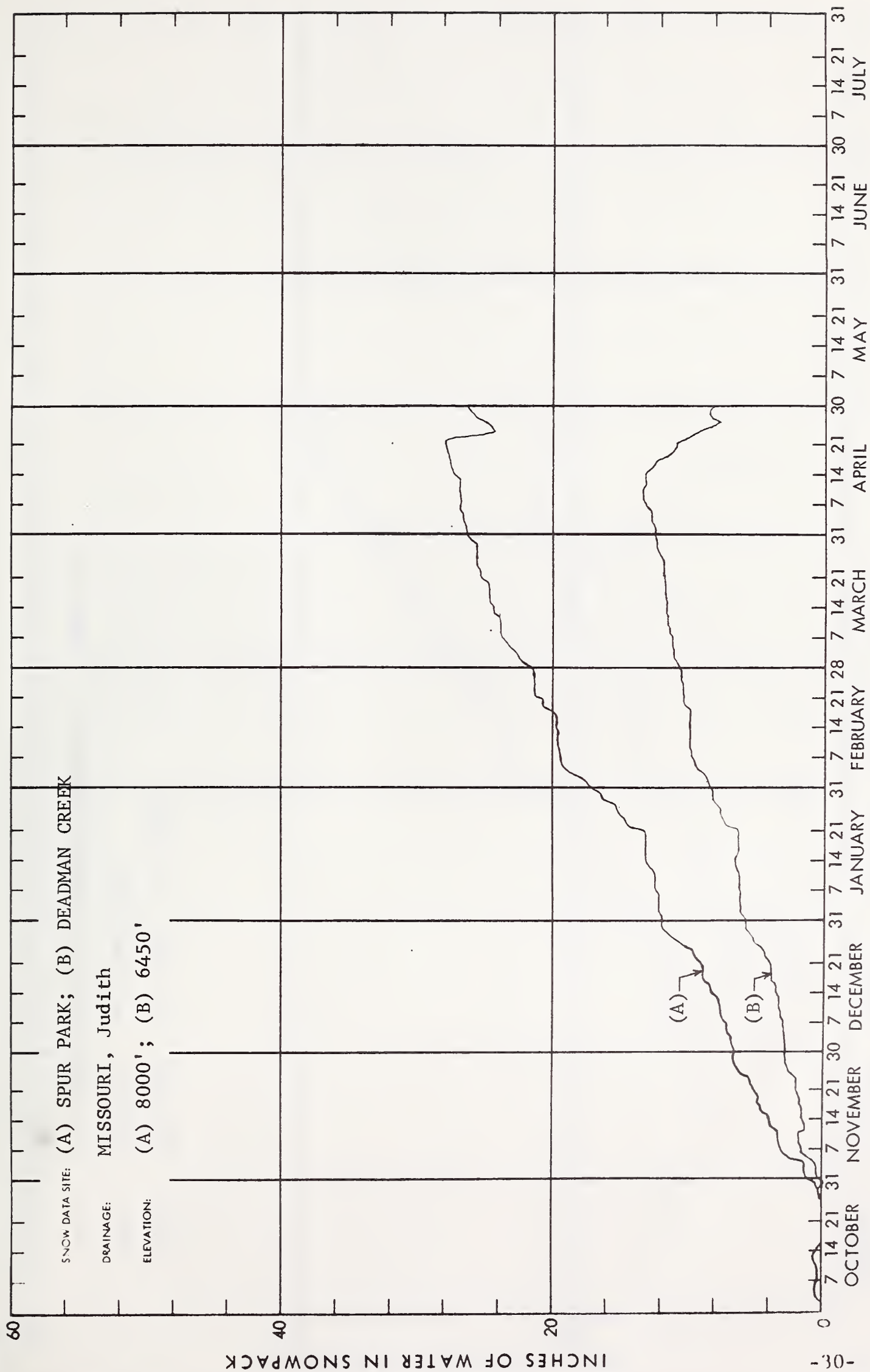
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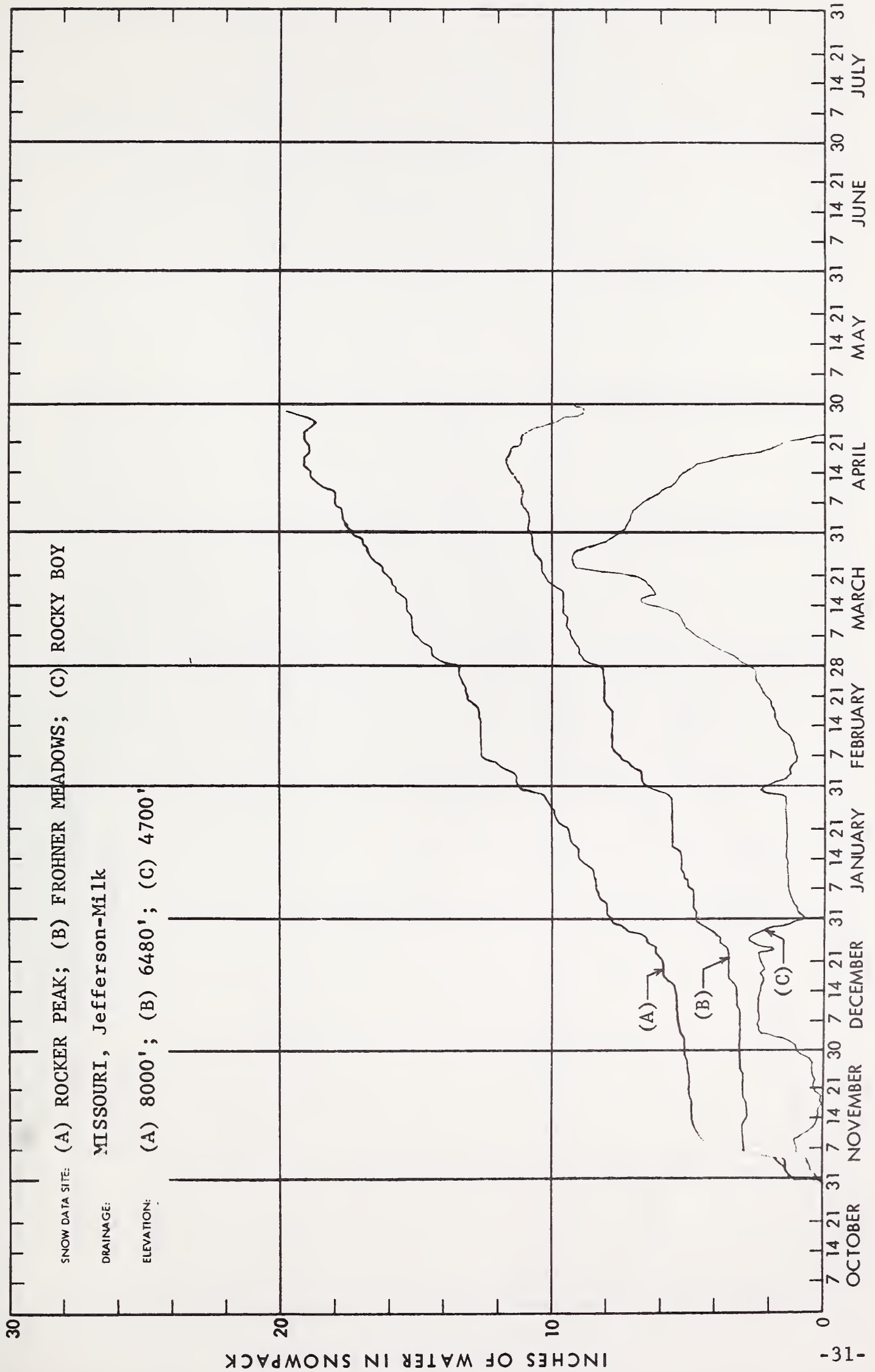




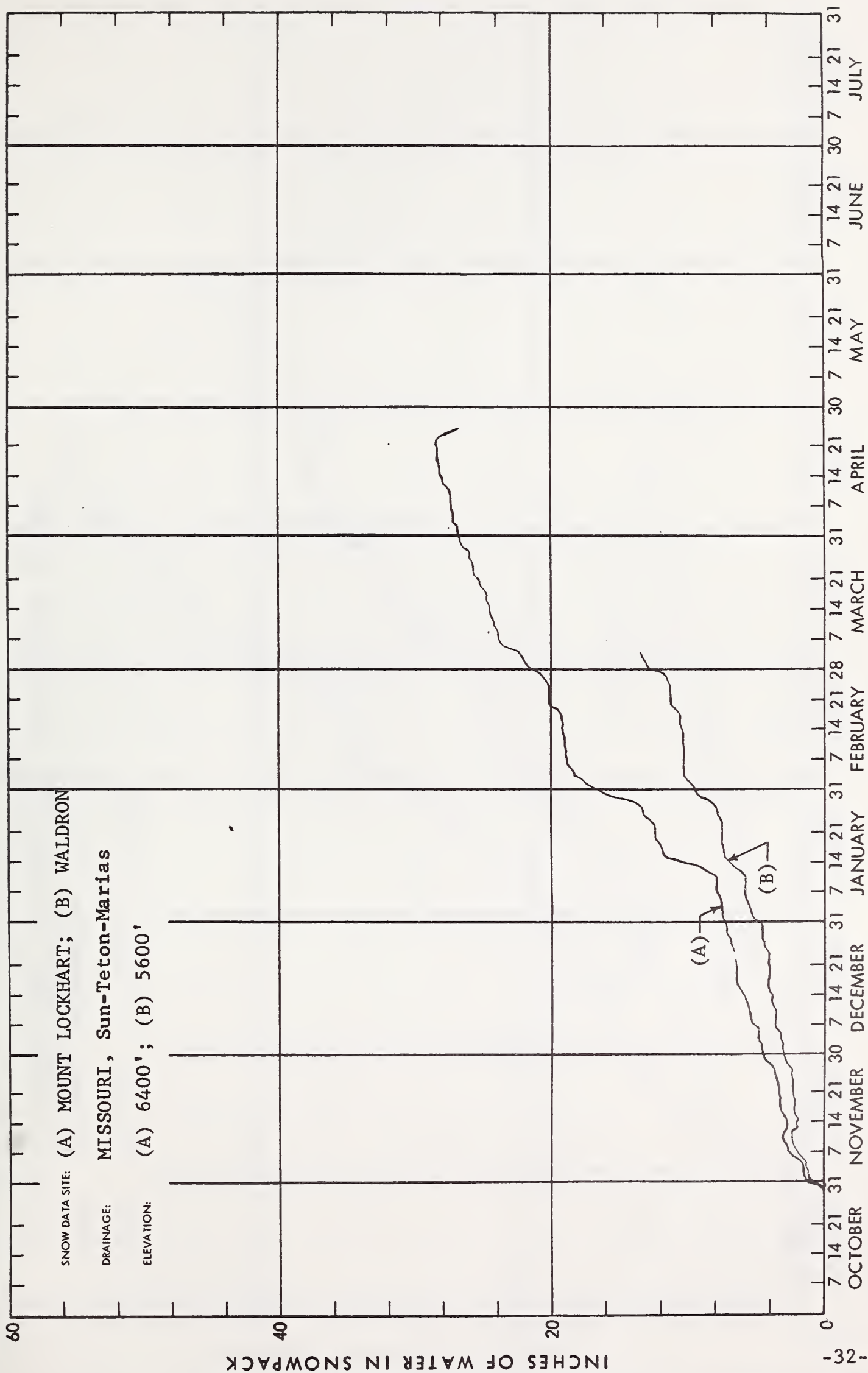
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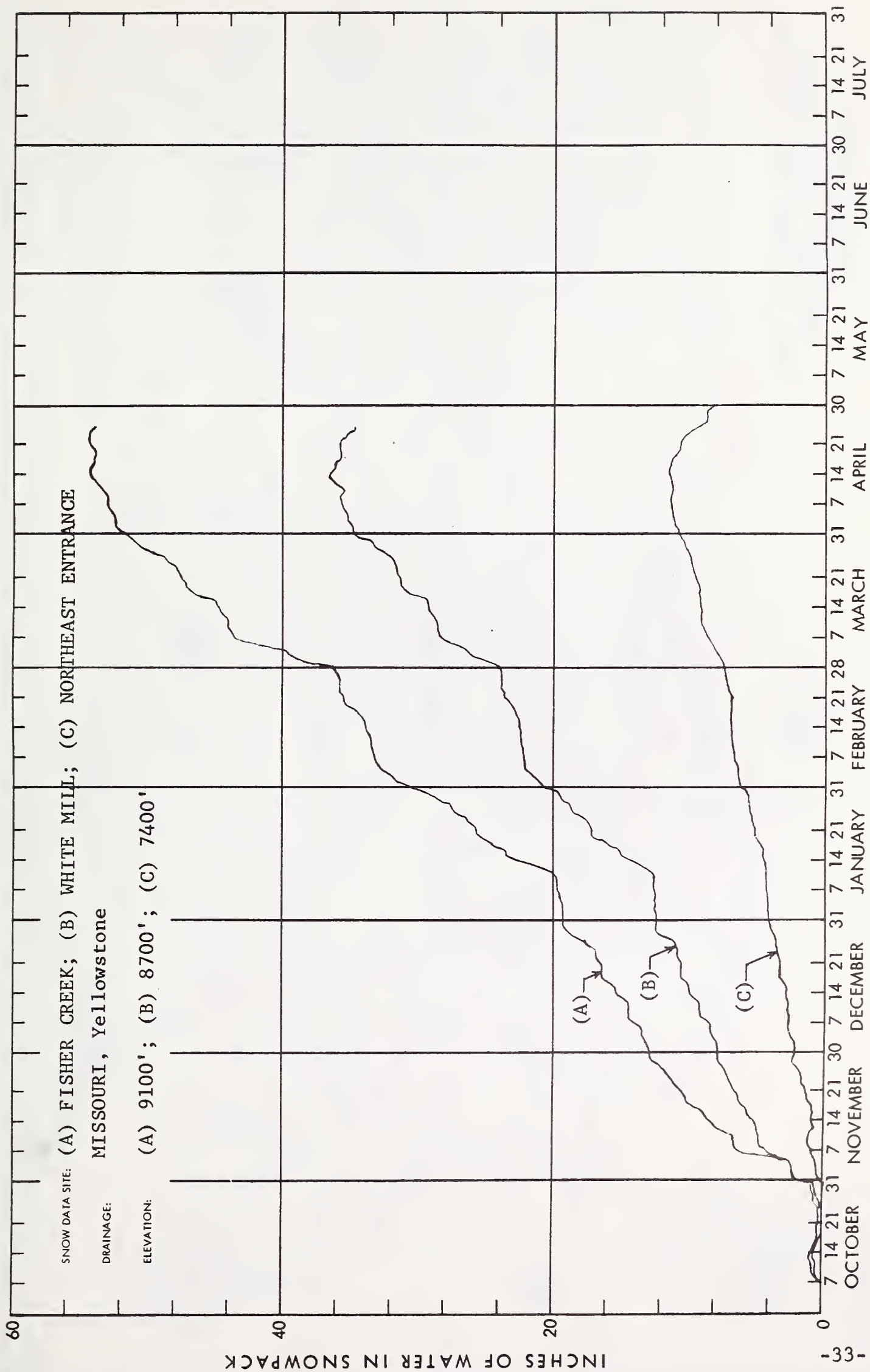




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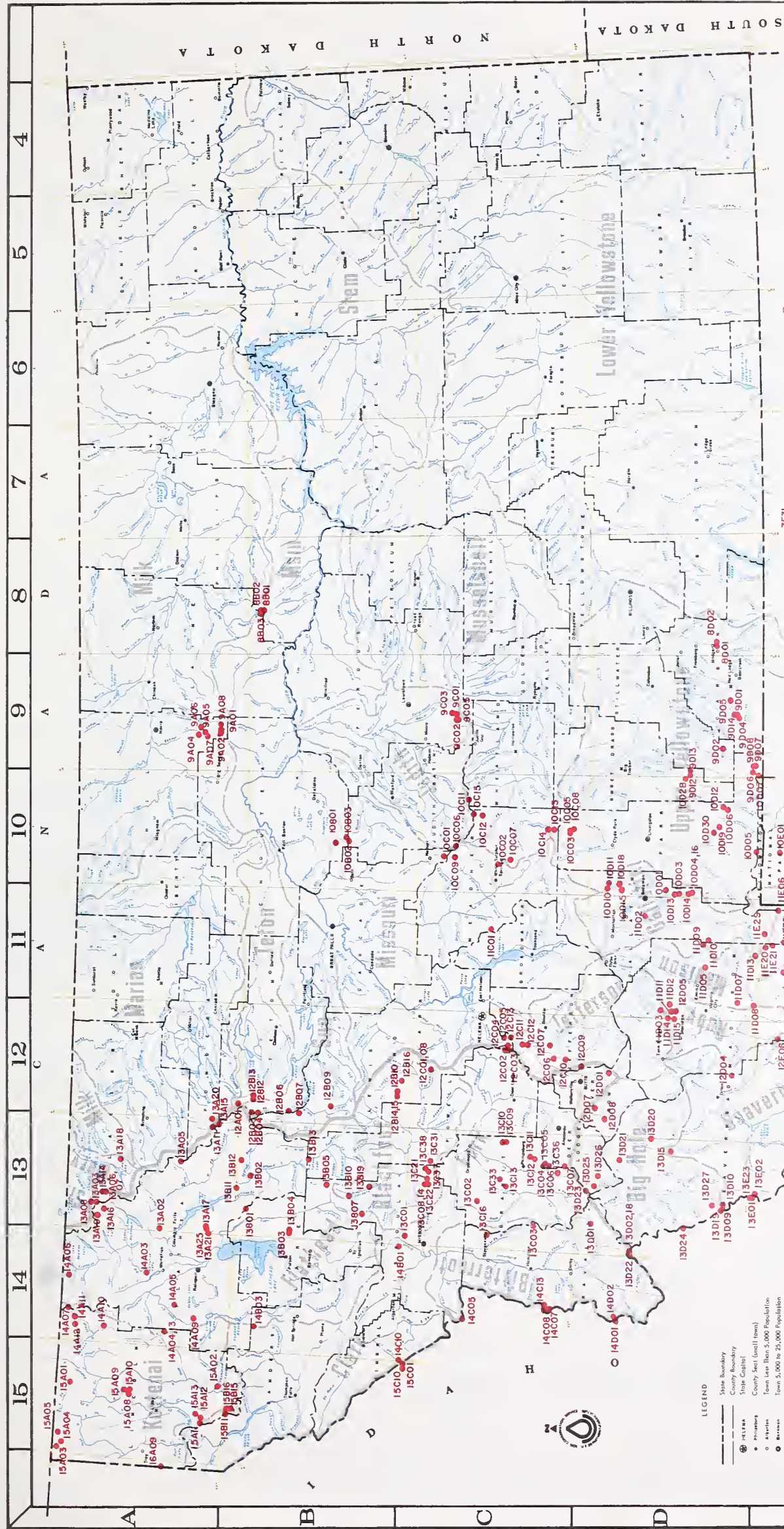
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1974



SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA



LEGEND

- State Boundary
- County Boundary
- State Capital
- County Seat (small town)
- Population
- Population 5,000 or more
- Town Less Than 5,000 Population
- Town 5,000 to 25,000 Population
- Town Over 25,000 Population
- Towns of less than 5,000 omitted from map unless incorporated or required for orientation purposes.
- Lake or Reservoir
- Canal or Ditch
- Large Stream
- Small Stream
- Water Spreading
- Watershed Boundary
- Subwatershed Boundary
- Snow Data Measuring Site

USGS National Atlas 1:4,100,000 Albers
Equal Area Projection
Data may not be current for 1974

INDEX to MONTANA SNOW COURSES and SOIL MOISTURE STATIONS

SNOW COURSES

COLUMBIA RIVER BASIN

Drainage Basin & Snow Course

Number

Elev.

Sec.

Top.

Range

Record Station

Measuring Dates 1/

Moas. By 2/

Drainage Basin & Snow Course

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Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the
Environment
Water Resources Service, Department of Lands, Forests
and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Bureau of Sports Fisheries and Wildlife
Geological Survey
National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and
Conservation
Montana Water Resources Board
Montana State University - Agricultural Experiment
Station
North Montana Branch Station - Agricultural Exper-
iment Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable
information for snow survey reports. Their cooperation
is gratefully acknowledged.

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water supply for irrigation,
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supply, hydro-electric power
generation, navigation,
mining and industry

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with the Snow Survey"*

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